FIX THE MONEY, HEAL THE SYSTEM

A Call to Action for Canada's Progressive Parties to Embrace Bitcoin

Scott A. Wolfe
November 2025

ABSTRACT

Fix the Money, Heal the System argues that Canada's social, economic, political, and environmental challenges share a common root: our broken "fiat" currency and a monetary system that rewards debt, speculation, and extraction. The paper explores Bitcoin—a powerful, global monetary alternative—through a progressive and policy-focused lens. It shows how this fairer, decentralized, and transparent form of money drives inclusion, empowers workers, strengthens human rights, and supports environmental sustainability. It contends that lasting social progress must begin with monetary reform. When money loses value through inflation and political manipulation, it leads to erosion of trust, fairness, and long-term planning. By contrast, Bitcoin offers a framework and a tool for rebuilding these foundations—linking economic value to real work, energy, and community rather than to privilege and power.

Drawing on real-world examples from Canada and around the world, the paper highlights how Bitcoin is already be used to build a better world. In doing so, it presents Bitcoin not as a speculative asset, but as a public good—and a powerful new tool for building more democratic, sustainable, and inclusive societies; one that should be confidently embraced by all progressive political parties and organizations in Canada.

ABOUT THE AUTHOR

Scott A. Wolfe works at the intersection of political economy, community development and social impact. He currently serves as Global Coordinator of the Federation of Bitcoin Circular Economies (FBCE) and is a Board Member of The Progressive Bitcoiner, a U.S.-based not-for-profit organization. He also contributed to the establishment of the Bitcoin Coalition of Canada, a Canadian not-for-profit focused on education, outreach and research.

Prior to 2023, Scott built a two-decade career in the not-for-profit and community health sector, most recently spending fifteen years as Executive Director of the Canadian Association of Community Health Centres and the International Federation of Community Health Centres. In that capacity he led multi-sector advocacy, capacity-building, and systems change initiatives across Community Health Centres in Canada and globally. He was a contributor to the 2018 WHO/UNAIDS Global Conference on Primary Health Care in Astana, Kazakhstan and *Declaration of Astana on Primary Health Care*. Scott also served previously as Policy Director for the Alliance for Healthier Communities (Toronto); Director of Global Health Policy for the International Association of Providers of AIDS Care (Chicago, Johannesburg); and Communications Advisor for the Pan American Health Organization (Washington D.C.).

In 2023, Scott pivoted toward Bitcoin as a global tool for social innovation, financial inclusion, human rights, and community development. With a strong foundation in community health and political economy, he bridges grassroots community work with disruptive monetary and technology frameworks. Scott holds an M.A. in Political Science from the University of Toronto and a B.A. (Highest Honours) from Carleton University. He is based in Toronto, Canada.







@ScottAWolfe

scottwolfe@primal.net

scottalexanderwolfe

EXECUTIVE SUMMARY

Across Canada and around the world, progressive political parties and movements are at a defining crossroads. Growing wealth gaps, housing unaffordability, food insecurity, the erosion of pensions and retirement savings, and many other signs of social distress are not isolated policy challenges—they are symptoms of a deeper systemic disorder: a broken monetary and financial foundation that rewards speculation, debt, and extraction while devaluing work, savings, and cooperation^{1,2}.

To build an economy and future that truly work for everyone, Canada's progressive parties—the New Democratic Party, the Green Party of Canada, and progressive factions within the Liberal Party of Canada and Bloc Québécois-must recognize that monetary and financial reform is not a fringe concern but a moral and structural imperative. It is the foundation upon which every social, economic, and environmental goal depends. At the center of this renewal stands Bitcoin: a neutral, open source, decentralized, and global public good designed to restore fairness, accountability, and resilience to the world's economic systems.

Bitcoin is not a corporation or a government project; its governance and operations are truly decentralized and on a global scale. It is simultaneously three things: the world's largest distributed computing network, an open-source communications protocol for value exchange, and a digital, borderless currency (BTC) that functions without intermediaries or central control.

Often described as both the discovery of digital scarcity and the realization of the separation of money and state^{3,4}, Bitcoin also represents something deeper—what philosophers Andrew M. Bailey, Bradley Rettler, and Craig Warmke call resistance

money⁵. It is a form of money built to withstand coercion, censorship, and financial exclusion. In a world where access to banking and freedom to transact can be denied, Bitcoin offers individuals and communities a parallel system—one that resists centralized abuse of power, one that empowers the unbanked and financially marginalized, and one that secures the basic right to hold and transfer value freely⁶.

Across the world—including in Canada, the United States, Europe, Australia, New Zealand and elsewhere—Bitcoin is being adopted by marginalized and underbanked communities seeking financial autonomy. It functions as a tool of economic justice and self-determination, helping individuals, families, and organizations to save outside predatory systems, to connect globally, and to build intergenerational wealth.

Rooted in the cypherpunk tradition of privacy, equity, and freedom, Bitcoin embodies many of the same ideals that have animated progressive politics for over a century: fairness, transparency, decentralization, and stewardship of the commons⁷. It democratizes access to finance in the same way that the Internet democratized access to information.

At the same time, it is critical to clearly distinguish Bitcoin from the broader "crypto" industry and the failures of centralized exchanges such as FTX and Celsius. As Andrew Lonero argues in "Bitcoin Is Not Crypto: Why It Matters," conflating Bitcoin with speculative, centralized tokens and exchanges obscures its purpose as open-source digital infrastructure designed for transparency, equity, and shared benefit. Bitcoin's decentralized governance, fixed supply, and other characteristics set it apart as a public

good in digital form—the ethical and technological foundation of the digital asset world.

A PROGRESSIVE TOOL FOR A FAIRER, MORE SUSTAINABLE FUTURE

For progressives, Bitcoin is not about speculation and mere profit—it is about sovereignty, inclusion, integrity, and the prospect of truly building a better world. Bitcoin's design and characteristics offer tangible ways to advance more just and equitable social, economic and environmental objectives for Canada and the world. These include, for example:

Financial inclusion and labour protection - Bitcoin allows unbanked, underbanked, and socio-economically excluded individuals to save and transact globally without corporate or government intermediaries. For workers, savers, and retirees, it preserves purchasing power in the face of inflation, strengthening the social foundations of wage justice, fair pensions, and intergenerational equity⁸.

Environmental innovation and energy abundance - Sixty percent of global Bitcoin mining now draws from renewable or stranded energy, with over 52% coming from renewable energy sources^{9,10}. Around the world-from Texas to Kenya, Iceland, Bhutan, and Manitoba-Bitcoin miners are financing new renewable energy projects, stabilizing energy grids, and capturing harmful methane that would otherwise escape into the atmosphere^{11,12}. Bitcoin turns waste into energy abundance and is rapidly becoming a partner technology in the global decarbonization effort. For countries, including Canada, Bitcoin mining also has the unique capacity to anchor the scale up of data centres necessary for the digital age of tomorrow, prioritizing privacy and data sovereignty.

Civil and human rights - Bitcoin defends privacy and autonomy against surveillancebased currencies and financial systems. In an era of growing digital control, where state and corporate actors increasingly weaponize financial infrastructure, Bitcoin restores the individual's right to hold and transact value freely. Its decentralized architecture eliminates the need for permission from banks or governments, allowing anyone—including journalists, activists, and marginalized groups—to organize, communicate, and exchange resources beyond the reach of coercion. Ultimately, Bitcoin operationalizes the ideals expressed in the *Universal* Declaration of Human Rights—Article 17's right to own property and Article 19's right to freedom of expression—by ensuring that control over one's labour, voice, and resources cannot be revoked by decree.

Community empowerment, Indigenous empowerment - For a wide range of communities, including Indigenous communities, the saving in Bitcoin and using Bitcoin within a local circular economy can enhance economic, social and cultural sovereignty, aligning with traditional stewardship values, and strengthening selfgovernance. Co-locating Bitcoin mining at hydro, wind, solar, or biomass sites can monetize stranded and excess capacity, generating local employment, income and economic development. These align with the NDP's vision of cooperative, community-based solutions to economic exclusion

Small-business and community resilience - Peer-to-peer Bitcoin payments reduce transaction fees and dependence on multinational payment processors, empowering local entrepreneurs and cooperatives. This supports the Green Party's and Bloc Québécois' advocacy for circular economies and community enterprise, and it echoes the Liberal Party's

emphasis on innovation-driven smallbusiness growth. Bitcoin helps level the playing field, giving local entrepreneurs and small businesses access to a near-borderless global marketplace.

Public accountability and democratic transparency - Bitcoin's open ledger is a model for transparent governance. It enables verifiable, tamper-proof accounting

that can reduce corruption, improve fiscal reporting, and build public trust—key goals for all progressive parties. Unlike other financial and accounting systems which are heavily dependent upon trust and can be easily obfuscated, the open Bitcoin ledger is audited on a global scale every ten minutes on average.

"Bitcoin is absolutely a tool for social justice. If you think about Black Americans, we believe that Bitcoin allows [us] to build generational wealth. And not just Black Americans ... Latino Americans, the LGBT communities and Indigenous communities. It allows communities to build wealth in communities that have been left out of the discriminatory banking system that we have today."

Charlene Hill Fadirepo
Former Audit Manager, U.S. Federal Reserve
Author of *The Bitcoin Leap: How Bitcoin Is Transforming Africa*

A CROSS-PARTY OPPORTUNITY FOR RENEWAL

Each of Canada's progressive political traditions finds something of itself reflected in Bitcoin—not as a partisan tool, but as a moral and practical instrument for renewal.

For the New Democratic Party, Bitcoin aligns with the cooperative-economics tradition, worker empowerment, and the protection of wages and pensions from inflation.

For the Green Party, it advances transparency, renewable energy innovation, and the defense of privacy as both an ecological and civic right.

For the Liberal Party, it offers a path to digital infrastructure leadership, inclusive

entrepreneurship, and sustainable fiscal governance.

For the Bloc Québécois, it reinforces Quebec's economic sovereignty, energy leadership, and cultural autonomy while strengthening local and cooperative economies.

Together, these values converge around a shared progressive goal: to build a fair, sustainable, and transparent economy that empowers people and communities, protects the environment, and restores integrity to public life. Bitcoin is the meeting point where social democracy, environmental justice, and fiscal responsibility align. It gives progressives a common language of renewal — one grounded not in ideology, but in practical

compassion, moral coherence, and an ethic of greater global cooperation.

A CALL TO ACTION

Adopting a forward-looking stance on Bitcoin is not about speculation or ideology; it is about justice, sustainability, and innovation. It is about giving every resident of Canada—from urban workers to agriculture-based communities, from First

1. CREATE A NATIONAL SOUND-MONEY AND INCLUSION STRATEGY

Develop a coordinated federal plan to promote financial literacy, open-source Bitcoin education, and equitable access to digital financial tools. This would include a National Dialogue on Monetary Ethics to reimagine money as a public good and reconnect Canadians with the moral foundations of fairness and accountability.

2. BUILD CLIMATE-RESILIENT
INFRASTRUCTURE BASED ON BITCOIN
Recognize Bitcoin mining as a
flexible grid stabilizer that
monetizes renewable surplus,
captures waste methane, and
supports the decarbonization of
Canada's energy systems. Through
tax credits and green incentives,
Bitcoin can help transform
environmental liabilities into assets.
In so doing, it can also help us build
the digital infrastructure and data
sovereignty we need for the digital
age of today and tomorrow.

3. COMMIT TO DEMINIMIS TAX EXEMPTION FOR BITCOIN TRANSACTIONS

Amend the Income Tax Act to exempt everyday Bitcoin payments

under a reasonable threshold, such as \$10,000, from capital-gains tax¹³. This would normalize digital

Nations to recent newcomers—access to a more transparent, inclusive, and resilient economic foundation. Across party lines, progressives can unite around ten key policy actions that together form a blueprint for renewal across our country.

commerce, empower small businesses, unleash pent up capital into our economy, and simplify compliance while stimulating innovation across the economy. It would also enable not-for-profit and charitable organizations across Canada to benefit more fully from the many use cases of Bitcoin as a tool for individual, family and community empowerment.

4. PROTECT CIVIL LIBERTIES IN DIGITAL FINANCE

Guarantee the right of Canadians to transact peer-to-peer without surveillance or discrimination. Embedding financial privacy in law would protect democracy itself and bolster freedom from oppression in an era of increasing digital control.

5. SUPPORT UNION AND PENSION FUND DIVERSIFICATION

Modernize pension legislation to allow responsible Bitcoin exposure under ethical and sustainability standards. This would protect intergenerational equity, ensure worker savings retain real value, and align Canada's public and private retirement systems with long-term resilience.

6. ADVANCE INDIGENOUS AND REGIONAL SOVEREIGNTY

Empower Indigenous, rural and remote communities to deploy Bitcoin-powered microgrids and renewable energy projects, monetizing local resources and strengthening self-governance. This aligns the energy transition with reconciliation and community independence.

7. ESTABLISH A FEDERAL STRATEGIC BITCOIN RESERVE

The Government of Canada should accumulate and hold Bitcoin as part of its diversified treasury assets. This would hedge against global currency volatility, enhance fiscal stability, and assert Canada's leadership in monetary innovation.

8. PILOT MUNICIPAL BITCOIN TREASURIES Enable cities and towns to hold Bitcoin reserves as inflation hedges

These ten recommendations are not merely technical reforms, they are statements of renewed values and moral commitments. Together, they form a blueprint for progressive monetary renewal that unites fiscal integrity with environmental stewardship, and technological innovation with human dignity.

Bitcoin offers progressives the chance to lead not only with policy but with

and funding mechanisms for green infrastructure, affordable housing, and community resilience projects, demonstrating fiscal innovation at the local level.

9. PROMOTE LOCAL CIRCULAR ECONOMIES Support cooperatives and community enterprises that use Bitcoin for local trade and financing. This strengthens economic self-reliance, reduces reliance on intermediaries, and keeps wealth circulating within communities.

10. INCLUDE BITCOIN IN INTERNATIONAL DEVELOPMENT POLICY

Integrate Bitcoin into Canada's global-development partnerships to promote financial inclusion, renewable energy, circular-economy projects, and human rights abroad. This would extend Canada's progressive leadership and ethical influence on the world stage.

principle—to show that fairness and sustainability can be rebuilt from the ground up, beginning with the money that underwrites every social and ecological promise. By embracing Bitcoin as public infrastructure for the common good, Canada's progressives can set an example for the world: proving that democracy, when anchored in truth and transparency, remains the most powerful force for justice and renewal on Earth.

BITCOIN'S ALIGNMENT WITH VALUES AND PRIORITIES OF CANADA'S PROGRESSIVE POLITICAL PARTIES

Progressive politics has always been about aligning power with principle—ensuring that economic systems serve people and the planet rather than the reverse. Yet Canada's social-democratic and green movements inherited a monetary framework designed for a different era: one that privileges debt over saving, speculation over labour, and consumption over conservation. The result is a widening gap between progressive ideals and the fiscal reality that sustains them.

Bitcoin offers a bridge. It provides a transparent, decentralized financial infrastructure consistent with the moral economy long envisioned by labour organizers, environmentalists, and civic reformers. By embedding fairness and accountability in code, Bitcoin allows each progressive party in Canada—from the NDP and Greens to the Liberals and Bloc Québécois—to advance its own platform and stated priorities while converging on shared ethical ground.

1.1 THE NEW DEMOCRATIC PARTY (NDP): AN ECONOMY THAT WORKS FOR EVERYONE

The New Democratic Party's vision of an economy that works for everyone resonates deeply with Bitcoin's principles of decentralization, fairness, and empowerment. At its core, Bitcoin represents a democratization of finance—a network that cannot be owned, controlled, or corrupted by any single entity. This aligns naturally with the NDP's cooperative-economics tradition and its enduring commitment to social and economic justice.

Financial inclusion - Bitcoin enables unbanked and socio-economically excluded individuals and groups to participate in the

global economy without relying on large financial institutions or corporate intermediaries. Around the world, millions of people who lack access to traditional banking are already using Bitcoin to save, send remittances, and transact with dignity. This technology restores agency to individuals and groups who have long been left behind by the legacy financial system—a goal that mirrors the NDP's advocacy for cooperative, community-based solutions to economic exclusion¹⁴.

Protection of savings - In an era where inflation quietly erodes wages, savings, and pensions, Bitcoin's fixed supply offers a means of preserving real value over time. For working families, retirees, and small savers, this protection is more than abstract monetary theory—it represents the difference between dependency and financial self-determination. As part of a broader movement toward economic resilience, Bitcoin complements the NDP's efforts to protect working-class wealth from systemic instability and corporate speculation¹⁵.

Unions and pension funds - Around the world, labour organizations are gradually beginning to use Bitcoin as both a hedge against inflation and a mechanism for transparency in fund management. Integrating Bitcoin into investment portfolios - even in modest allocations can help Canadian unions and pension plans safeguard intergenerational equity, ensuring that the contributions of today's workers are preserved for tomorrow's retirees. Moreover, transparent and auditable Bitcoin-based systems could modernize governance structures and strengthen accountability within labour institutions^{16,17,18,19}.

Worker empowerment - By removing unnecessary intermediaries and mitigating the hidden tax of currency debasement, Bitcoin can enhance the real bargaining power of workers. When savings hold value over time and wages are not silently diminished by inflationary policies, labour gains genuine leverage in negotiations. This dynamic restores balance between workers and employers—a principle at the heart of the NDP's historic mission to build a fairer economy from the ground up²⁰.

Democratic sovereignty - Finally, Bitcoin's decentralization embodies the NDP's broader goal of individual and community empowerment over monopolies—whether corporate, financial, or governmental. A commitment to monetary sovereignty is a natural extension of the party's legacy of standing up for Canadian workers, small businesses, and communities. Introducing a "Sound Money for Workers" education plank in the next leadership cycle could help modernize the NDP's platform, positioning it as the first major political movement in Canada to recognize Bitcoin's role in advancing economic democracy and collective prosperity^{21,22}.

1.2 THE GREEN PARTY OF CANADA: ECOLOGICAL STEWARDSHIP AND ECONOMIC INTEGRITY

The Green Party's core pillars—ecological stewardship, transparency, and community enterprise—find strong and practical expression in Bitcoin's open, decentralized design. Just as the Greens advocate for distributed energy systems and participatory democracy, Bitcoin represents a parallel movement toward distributed, transparent, and accountable economic systems. It invites a rethinking of money itself as part of an ecosystem—one that must be sustainable, inclusive, and rooted in individual autonomy and responsibility.

Transparency and decentralization - Bitcoin's open ledger provides a radical form of transparency that combats the entrenched interests of crony capitalism and financial opacity. Every transaction is verifiable and auditable by anyone, ensuring accountability without requiring blind trust in institutions or bureaucracies. This ethos resonates deeply with the Green Party's long-standing call for systemic transparency, democratic control, and the decentralization of power—economic as well as political²³.

Environmental innovation - Bitcoin is increasingly a catalyst for renewable energy growth and innovation. Over sixty percent of the global hash rate now comes from renewable or low-emission energy sources. Around the world, projects in Texas, Iceland, Kenya, Manitoba and elsewhere demonstrate how Bitcoin mining can stabilize energy grids, monetize surplus power, and make renewable infrastructure more economically viable²⁴.

In Canada, companies such as HIVE, Upstream Data, Hut8, Bitfarms, MintGreen, IREN and others are pioneering these processes, including the conversion of stranded or wasted natural gas into productive electricity, reducing emissions while creating new revenue streams for local energy producers. This evolving relationship between Bitcoin and clean energy aligns with the Green Party's vision of technological innovation serving ecological and social good^{25,26,27}.

Small-business empowerment - Bitcoin's peer-to-peer architecture allows local entrepreneurs, cooperatives, and small businesses to transact directly, without costly intermediaries or corporate gatekeepers. This reduces fees, increases autonomy, and keeps more value circulating within communities—precisely the kind of economic localization and resilience that

the Green Party seeks to foster through its support for community enterprise and ethical commerce. By embracing an open, global monetary network, small businesses gain a fairer playing field in an increasingly monopolized global economy^{28,29}.

Civil rights and privacy - Bitcoin's defense of financial autonomy and privacy is not just a civic concern, it is an environmentalist one as well. Surveillance-based financial systems fuel extractive economies that commodify human behaviour and erode the trust essential for sustainable societies. Bitcoin, by contrast, enables voluntary, private transactions that protect individuals from coercive data extraction and centralized control. In this sense, Bitcoin upholds the same principles of decentralization and respect for natural and human autonomy that define the Green movement's philosophy³⁰.

Together, these dimensions position Bitcoin as a powerful, technological ally of ecological and social transformation. By recognizing and embracing the role that Bitcoin can play in supporting transparency, renewable energy innovation, and economic self-determination, the Green Party of Canada can extend its leadership into the realm of financial ecology: a new frontier in sustainability and justice.

1.3 THE LIBERAL PARTY OF CANADA: INNOVATION, INCLUSION, AND FISCAL BALANCE

The Liberal Party's stated values of innovation, inclusion, and fiscal responsibility can each be advanced through a thoughtful embrace of Bitcoin. Far from being a speculative fad, Bitcoin represents a powerful public infrastructure—an open, global protocol for secure value exchange. By integrating Bitcoin and its principles into Canada's innovation and trade strategies,

the Liberal Party could build its reputation as a forward-looking steward of both technological progress and economic stability.

Digital infrastructure - Bitcoin's open source network design complements Canada's existing digital innovation agenda and global trade ambitions. Just as the Internet once democratized access to information, Bitcoin democratizes access to finance, creating a shared infrastructure for digital, permissionless value transfer across borders. Supporting research, education, and responsible integration of Bitcoin, layer two technologies, and Bitcoin mining would position Canada as a leader in the next phase of digital infrastructure development—one grounded in transparency, security, and interoperability with global markets³¹.

Indigenous, rural, and northern community development - Bitcoin mining and related energy innovations offer unique opportunities for northern and rural development. Co-locating small-scale or modular mining operations at underused hydro, wind, or biomass sites can help monetize stranded renewable energy, support grid stability, and generate new revenue streams for local and Indigenous communities.

It can also gird Canada's efforts to secure data sovereignty and national security in an increasingly fraught geopolitical and digital future. In remote regions, such projects could advance economic sovereignty by keeping wealth generation local while reducing dependence on centralized utilities or extractive industries. This approach aligns with the Liberal commitment to reconciliation through shared prosperity and sustainable regional growth, with emphasis on the importance of data sovereignty^{32,33,34}.

Fiscal discipline and middle-class security -The Liberal Party's emphasis on maintaining fiscal balance and protecting the middle class finds a natural complement in Bitcoin's sound-money principles. By existing outside the reach of inflationary pressures and debt monetization, Bitcoin preserves purchasing power for ordinary Canadians and encourages more prudent fiscal planning. While government spending remains essential to Canada's social fabric, integrating a sound-money perspective can help ensure the sustainability of long-term programs such as pensions, healthcare, and education-safeguarding intergenerational equity 35 .

Entrepreneurship and innovation - Bitcoin's layer two solutions, such as the Lightning Network, enable near-instant, low-fee digital commerce at scale—a powerful tool for entrepreneurs and small businesses. These technologies reduce payment costs, eliminate dependence on foreign payment processors, and expand access to international markets. For Canada's innovators, this represents a practical extension of the Liberal Party's commitment to supporting small business competitiveness, export growth, and inclusive participation in the global digital economy³⁶.

By recognizing Bitcoin as an enabling layer of financial infrastructure, the Liberal Party can integrate it into its broader vision of a fair, innovative, and future-ready Canada. Such leadership would not only reinforce Canada's role as a global innovator but also demonstrate how responsible engagement with emerging technologies can advance shared prosperity and fiscal sustainability.

1.4 THE BLOC QUÉBÉCOIS: ECONOMIC SOVEREIGNTY AND CULTURAL RESILIENCE

A progressive current within the Bloc Québécois emphasizes financial inclusion, social democracy, and environmental integrity alongside the party's defining mission of protecting Quebec's cultural and political autonomy. These principles sovereignty, decentralization, and solidarity—find powerful expression in Bitcoin's open, borderless, and communitydriven architecture. Far from being merely a technological innovation, Bitcoin offers a practical framework through which Quebec can advance its vision of économie solidaire, energy leadership, and cultural independence within an interconnected world.

Economic sovereignty and decentralization - Bitcoin's decentralized monetary network allows Quebec communities to exchange and store value without relying on federally-controlled banking institutions or centralized intermediaries. This aligns with the Bloc's longstanding advocacy for economic self-determination and regional autonomy. By adopting Bitcoin as a complementary reserve asset and transaction medium, Quebec municipalities, cooperatives, and local enterprises could strengthen their capacity for independent development, fostering resilience against external financial pressures and policy decisions made in Ottawa or abroad³⁷.

Energy leadership - Quebec's world-class hydroelectric infrastructure and renewable potential uniquely position the province to become a global superpower in sustainable Bitcoin mining. By integrating Bitcoin miners as flexible grid partners, Quebec could accelerate renewable build-out, further monetizing production and balancing seasonal load fluctuations. This would not only create new streams of

economic activity but also advance decarbonization and energy abundance—reinforcing the Bloc's commitment to climate leadership grounded in Quebec's natural advantages³⁸.

Cultural and linguistic inclusion - Bitcoin's open-source protocol transcends linguistic, geographic, and institutional boundaries. For Quebec's French-speaking developers, entrepreneurs, and innovators, it offers an equal platform to build, innovate, and trade globally without needing to conform to Anglo-dominated financial, technological, or cultural systems. This democratization of opportunity mirrors the Bloc's mission to ensure that Quebec's cultural and linguistic identity remains vibrant and competitive in the digital age, grounded in autonomy rather than assimilation³⁹. It also provides a far superior medium of exchange—a truly global onethrough which to foster social, economic and political cooperation with the broader global Francophonie.

Social justice and local economies - The Bloc's progressive wing has long championed cooperatives, credit unions, and local enterprises as engines of community development. Bitcoin amplifies these initiatives by lowering remittance and payment costs, enabling peer-to-peer commerce and financing, and connecting Quebec's circular economies to global markets. Through Bitcoin, local producers, artisans, and small cooperatives can directly transact with international buyers, bypassing intermediaries and retaining more value within their communities. This is economic solidarity in action—a form of globalization that preserves local dignity while enhancing global connection⁴⁰.

BITCOIN'S PROGRESSIVE FOUNDATIONS

Progressive movements have always been both technological and moral revolutions. From the printing press that democratized knowledge to the cooperatives that democratized labour, each advance in human freedom has depended on new tools of coordination and collective agency. Bitcoin belongs to this same lineage.

Bitcoin embodies the *separation of money* and state^{41,42}—a principle as transformative as the separation of church and state once was—ensuring that monetary systems serve people rather than power. As *resistance* money⁴³, Bitcoin provides a means for individuals and communities to resist financial surveillance, censorship, and exclusion, securing the right to participate freely in economic life.

For progressive political parties and movements, these principles matter deeply: they align with long-standing commitments to social justice, human rights, and decentralization of power. Understanding Bitcoin through this lens means recognizing it not as a speculative asset but as a new form of democratic infrastructure—one capable of extending economic, environmental, and civic justice into the digital future.

For progressives, resistance money is not about escaping society—it is about redesigning it on fairer terms. By removing the monopoly of monetary creation and control from centralized institutions, Bitcoin enables a new architecture of transparency and accountability. This separation of money and state empowers citizens rather than entrenched interests, offering a financial system that operates by open rules rather than discretionary privilege. It creates space for policies that advance equity—such as community banking models, universal access to digital

payments, and the redirection of value flows back into local economies. For movements focused on environmental justice, it opens pathways for cleaner energy development through sustainable Bitcoin mining. For those focused on social justice, it ensures that the right to save, transact, and build economic security is not determined by one's geography, class, or political affiliation. In this sense, Bitcoin does not oppose progressive ideals, it operationalizes them.

2.1 CORRECTING THE NARRATIVE

Strong endorsements of Bitcoin from notable conservative politicians and political parties—among them the Honourable Pierre Poilievre in Canada^{44,45,46}, U.S. President Donald Trump, Republican Senators Cynthia Lummis and Ted Cruz, and many other Republicans in the U.S.⁴⁷—have obscured Bitcoin's neutral character. Bitcoin has been mischaracterized by some observers as a conservative-aligned asset and technology.

Contrary to such misguided opinion, Bitcoin is in fact an open, global network and digital money available to all and for all⁴⁸. It is not ideologically aligned. Bitcoin is for everyone^{49,50}. As Elliott David, Head of Climate Strategy at Sustainable Bitcoin Protocol has beautifully said: "Through my work ... I've come to understand that bitcoin has intrinsic value for everyone, regardless of political affiliation. Bitcoin isn't right or left—it's forward"⁵¹.

In the U.S.⁵², where demographic study of Bitcoin ownership and use is more advanced, powerful research has found that of the 48 million American adults who own Bitcoin (12.5% of total population), "Bitcoin owners remain well-distributed across the political spectrum, clustered around the ideological center"⁵³. Distribution of

ownership and use of Bitcoin also mirror the general U.S. population in terms of race, ethnicity, income, education, and financial literacy - though it does skew younger and more male, as is common with participation in other areas of technology and finance^{54,55,56}.

It is noteworthy that Bitcoin's very first act was a protest. Embedded in its genesis block—the first block ever mined on January 3, 2009 by Bitcoin's pseudonymous creator, Satoshi Nakamoto—is a headline from *The Times* of London: "Chancellor on brink of second bailout for banks"⁵⁷.

This message was no technical quirk. It was a deliberate statement, etched permanently into code, announcing to the world that Bitcoin was conceived as a response to systemic moral failure: the corruption, inequality, and impunity of crony capitalism. In that single line, Bitcoin's creator encapsulated a conviction that the financial order had become untethered from accountability and justice. The code itself became an act of dissent—a declaration that money, like democracy, must be rooted in transparency, fairness, and trust that is earned rather than imposed. Bitcoin was born as resistance money.

This foundational gesture continues to resonate today, including within progressive political discourse in Canada. On October 31, 2023—marking the fifteenth anniversary of the *Bitcoin White Paper*—Liberal MP and now Minister for Government Transformation, Public Works and Procurement, the Honourable Joël Lightbound, rose in Parliament to acknowledge Bitcoin's progressive potential. In his statement, he recognized that Bitcoin's open, decentralized design carries profound implications for financial inclusion, privacy, and civic empowerment.⁵⁸.

That acknowledgment within Canada's federal legislature reflects a growing awareness across ideological lines: that Bitcoin is not a speculative asset, but a public-interest technology with the capacity to democratize finance, constrain institutional excess, and restore moral agency to ordinary people. In its genesis, Bitcoin carried a warning; more than sixteen years later, it stands as an invitation to build a more transparent, equitable, and accountable economic order.

2.2 BITCOIN AND FINANCIAL EMPOWERMENT AMONG MARGINALIZED COMMUNITIES

Across Canada, the United States, Europe, Australia, and elsewhere, Bitcoin is emerging as a grassroots instrument of financial inclusion among communities historically excluded from traditional banking, credit systems, housing and other systems. For many African Americans, immigrants, and other groups that have historically faced exclusion from traditional finance, housing, employment and other means of advancement, Bitcoin offers a powerful way to preserve value and build intergenerational wealth outside structures that have long perpetuated inequality⁵⁹.

In the United States, authors and community leaders such as Isaiah Jackson (Bitcoin & Black America⁶⁰), Charlene Hill Fadirepo (The Bitcoin Leap^{61,62}), Lamar Wilson (Black Bitcoin Billionaire^{63,64}), and Dawdu M. Amantanah (Bitcoin & the American Dream⁶⁵) have documented how Bitcoin functions as a modern-day civil rights tool—one that allows Black entrepreneurs, workers, and savers to reclaim economic agency through ownership, education, and peer-led digital finance. Their work highlights how Bitcoin is being used to bypass discriminatory lending, reduce reliance on remittance middlemen,

and cultivate local circular economies within marginalized communities.

In Canada, Australia, New Zealand and throughout Europe, similar dynamics are unfolding. Local Bitcoin education groups and cooperatives are increasingly achieving broader participation from an array of people and groups seeking alternatives to high-fee financial institutions and unstable fiat systems. Among individuals and families with continued attachments to family living abroad, Bitcoin is being adopted and used as a frictionless, censorship-resistant tool for remittances and transnational economic unity⁶⁶.

For progressives, these examples underscore Bitcoin's most profound promise: monetary self-determination for all. They show that Bitcoin is not a speculative playground for elites, but a technology of empowerment—one that enables communities historically locked out of capital markets and traditional finance to save, transact, and build equity on their own terms.

2.3 THE CYPHERPUNK TRADITION: FROM PREHISTORY TO PROTOCOL

Bitcoin arose from decades of digital-rights activism—a movement that fused technological innovation with moral conviction. Its roots lie in the cypherpunk tradition, a global network of programmers, writers, and activists who recognized, long before most policymakers did, that the digital age would redefine both power and privacy.

This lineage stretches back to the 1970s and 1980s, when researchers such as Vint Cerf and Bob Kahn developed TCP/IP, establishing the open-network foundations of the Internet. Cryptographers Whitfield Diffie and Martin Hellman published *New Directions in Cryptography*⁶⁷, introducing public-key exchange, while Ralph Merkle

conceived Merkle trees (1980), a structure later vital to Bitcoin's block-hash design. Throughout the 1980s and 1990s, pioneers like David Chaum (DigiCash)⁶⁸, Wei Dai (Bmoney)⁶⁹, Nick Szabo (Bit Gold)⁷⁰, and Adam Back (Hashcash, proof of work)⁷¹ conducted early experiments in digital currency and trustless value transfer. Together, these innovations formed a technical prehistory—a forty-year research arc that made Bitcoin possible (Figure 1⁷²).

Within this ferment, the cypherpunks of the 1990s—figures like Eric Hughes, Timothy C. May, and John Gilmore—translated these cryptographic tools into a philosophy of resistance. Their manifestos declared that privacy was a human right and that code could defend freedom where law and politics failed. Among them was Judith Milhon ("St. Jude"), one of the few women in the early hacker community, who insisted that technology must be a means of emancipation rather than control. Milhon and her peers understood that as information became the new currency of power, the ability to communicate, organize, and transact privately would become essential to preserving democracy and individual autonomy^{73,74,75}.

Bitcoin thus emerged as the logical continuation—and culmination—of this moral and technical lineage. It unified four decades of work in cryptography, network protocols, and digital cash into a coherent system of open-source monetary sovereignty. Its launch in 2009 did not signal the arrival of a fad, but the maturation of a civilizational project to encode freedom into the very infrastructure of value.

At its core, Bitcoin is not a speculative asset but a people's tool for financial selfdetermination. It extends the cypherpunk promise from the realm of communication into the realm of value—enabling individuals

Bitcoin Prehistory

Bitcoin did not come out of the blue, it's not a fad The result of 40 years of research, development, and demand

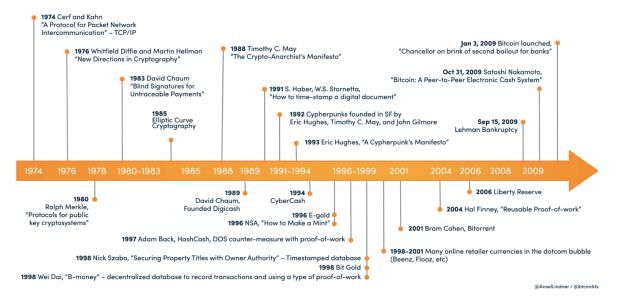


Figure 1

to save, send, and transact across borders without reliance on centralized institutions. It represents a profound continuity between the early Internet's fight for freedom of expression and today's struggle for financial inclusion. In this sense, Bitcoin is the spiritual heir of digital civil disobedience—not a rebellion of code against law, but of openness against control, of empowerment against dependence.

2.4 BITCOIN IS NOT "CRYPTO": WHY DISTINCTION MATTERS FOR PROGRESSIVES

For progressives, distinguishing between Bitcoin and the broader "crypto" industry is essential. While Bitcoin emerged as an open, decentralized, and ethically grounded technology for monetary reform, much of the "crypto" ecosystem that followed has been characterized by speculation, opacity, and concentrated control—traits antithetical to the values of transparency, fairness, and sustainability that progressives espouse.

The collapses of FTX, Celsius, and similar exchanges in 2021 and 2022 were not failures of Bitcoin; in fact, they had very little to do with Bitcoin at all. Rather, they were the failure of centralized financial entities that replicated the same rentseeking and moral hazards of the legacy system, made all the worse by poor regulatory clarity. As Andrew Lonero notes in his widely circulated essay, "Bitcoin Is Not Crypto: Why It Matters", conflating Bitcoin with speculative tokens and unregulated intermediaries obscures its true character as public digital infrastructure open source, decentralized, and governed by mathematical consensus rather than human discretion⁷⁶.

Bitcoin was not only the first so-called digital asset, it had no founder, no marketing department, no centralized issuer, and a fully transparent monetary policy. It stands apart as a neutral, protocol-level innovation akin to the Internet—belonging to everyone and controlled by no one. The "crypto" industry, by contrast, largely consists of

private networks and token schemes designed for profit extraction rather than empowerment.

For progressive movements and policymakers, this distinction is more than semantic—it is moral and practical.

Recognizing Bitcoin as an ethical public good, rather than a speculative "crypto"

asset," enables thoughtful regulation that protects the public while fostering open innovation. It prevents the errors of overreach and misclassification that could stifle the very technology capable of advancing financial inclusion, human rights, environmental responsibility, and democratic accountability.

THE ROOT PROBLEM: HOW BROKEN MONEY FUELS SOCIAL, ECONOMIC AND ENVIRONMENTAL DISTRESS

Every crisis of affordability, inequity, and environmental degradation traces back to a monetary foundation that rewards debt and punishes prudence. Progressives have long fought the symptoms of this imbalance—wage stagnation, asset bubbles, financial exclusion, and ecological overshoot—but have seldom addressed its monetary root.

In her seminal work, *Broken Money: Why Our Financial System is Failing Us and How We Can Make it Better*, economist and systems analyst Lyn Alden argues that the fiat money order, decoupled from tangible value, breeds short-termism and instability that corrode both economic justice and ecological balance⁷⁷.

Many others have reached similar conclusions as Alden. Robert Breedlove describes unsound money as "a system that monetizes lies," warning that inflation corrupts the moral link between work and reward⁷⁸. Jeff Booth, in *The Price of Tomorrow: Why Deflation is the Key to an Abundant Future*, shows how monetary inflation collides with technological deflation, forcing governments to print ever more currency to mask productivity gains⁷⁹. Jason Maier and Saifedean Ammous both note that such policies distort incentives, transferring wealth upward while impoverishing the future^{80,81}.

3.1 INFLATION AS A ROOT CAUSE

Inflation is a regressive tax on labour. When governments expand the money supply faster than productivity, purchasing power erodes and workers pay the price⁸². Wages negotiated in good faith lose real value before contracts expire, and pension funds built on decades of contribution wither under hidden debasement (the debasement of the money). For unionized and public-

sector workers, this means years of hardfought gains are quietly undone by monetary policy rather than open legislation. For progressive movements that champion labour rights, housing affordability, and economic justice, ignoring the structural drivers of inflation is no longer tenable; it is a silent betrayal of the very constituencies they seek to protect.

As Lyn Alden and Jeff Booth explain, this cycle amplifies inequality through the *Cantillon Effect*⁸³, whereby new money benefits those closest to its creation—banks, large corporations, hedge funds, accredited investors, and major asset owners⁸⁴—while ordinary people inherit the diluted aftermath. Every dollar printed widens the wealth gap, rewarding speculation over work, and leverage over production.

For progressives, who have historically sought to curb rent-seeking and ensure fair distribution of opportunity, understanding this mechanism is essential. Inflation is not simply an economic statistic; it is a systemic transfer of value from the working class to the elite, administered invisibly through monetary expansion.

Inflation also undermines sustainability. A currency that loses value each year compels people, organizations, and businesses to consume quickly, extract resources prematurely, and chase speculative growth instead of building durable systems. Short-termism becomes rational behaviour in a debased monetary environment. Sound money, by contrast, reverses that logic: it rewards saving, patience, and long-term planning—the same virtues required for ecological regeneration and intergenerational equity. In this sense,

Bitcoin's fixed supply is not only a safeguard for workers but an environmental principle—aligning economic incentives with the stewardship values progressives hold dear.

For progressive political parties, this recognition should be transformative. The pursuit of social democracy, climate stability, and equitable development cannot rely indefinitely on debt-financed spending and inflationary stimulus that erode real wages and savings.

A just monetary system must protect value creation at its source: human time, labour, and trust. Bitcoin, with its transparent and incorruptible issuance schedule, offers a framework for rebuilding that trust. It allows governments, unions, and cooperatives to anchor fiscal policy in reality rather than rhetoric—to finance social priorities without mortgaging the future through endless currency dilution. In doing so, it invites progressives to reclaim the moral language of money itself: to fix the foundation upon which fairness, sustainability, and human dignity depend.

3.2 THE VICIOUS CYCLE OF PUBLIC SPENDING

Progressive movements have long recognized the moral imperative of public investment—funding education, healthcare, housing, and green infrastructure as foundations of a just society. Yet under today's fiat monetary order, these goals are undermined by the system's own mechanics.

Governments expand social programs through debt-financed spending, only to see future budgets consumed by rising interest obligations and inflationary pressures. Canada's federal debt grew from \$20.29 Billion in 1970 to \$1.236 Trillion as of 2024 (Figure 2)—driven over time by deficit spending and rising interest costs that now consume a growing share of the federal budget⁸⁵. Recent research suggests the combined federal and provincial debt could reach \$2.3 Trillion as of 2026⁸⁶.

The result of continued deficit spending and mounting debt is a profound paradox: the very efforts designed to reduce inequality can, under an inflationary regime, deepen it. As governments spend to uplift workers and vulnerable households, the real value

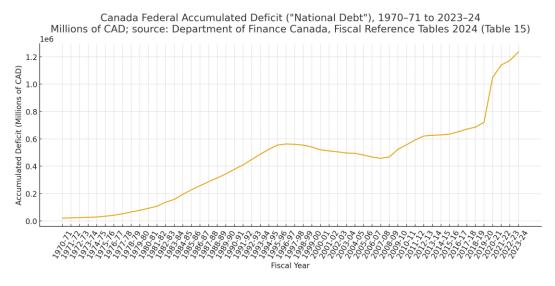


Figure 2

of wages, pensions, and public savings erodes, while those holding scarce assets—real estate, equities, commodities—see their wealth multiply⁸⁷.

Economist Lyn Alden calls this a form of monetary decay: a guiet corrosion that turns fiscal activism into self-defeat, trapping well-intentioned policy in a feedback loop of devaluation88. Technologist Jeff Booth likens it to "building social safety nets on guicksand" an image that captures the futility of designing justice atop a monetary system that rewards speculation over stewardship⁸⁹. For progressive movements, this is not merely a technical flaw but a moral contradiction: the pursuit of fairness built on a foundation that perpetually shifts beneath the working class. Unless the money itself is fixed, every redistributive effort risks being reclaimed by the same mechanism that caused the imbalance in the first place.

Bitcoin offers a structural remedy rather than a temporary fix. By anchoring money to verifiable scarcity and mathematical transparency, it introduces the same sustainability logic that progressives already apply to environmental and energy policy. Just as a planet with finite resources demands responsible ecological management, a monetary system with a fixed supply demands fiscal honesty and long-term planning.

In a Bitcoin-denominated world, governments can and should still spend for the public good—but must do so with clearer accountability, ensuring that every investment genuinely advances equity and resilience rather than perpetuating the silent tax of inflation. In this sense, sound money is not austerity, it is integrity: a monetary foundation that aligns fiscal policy with the progressive ethics of

sustainability, stewardship, and intergenerational justice.

3.3 REGULATORY CONTROL AND CRONY CAPITALISM

Progressives have long warned of the dangerous convergence between state authority and corporate power—a system where regulation, rather than restraining privilege, often entrenches it. Under the fiat financial order, the same institutions that issue and control currency also determine who gains access to it, producing what political economists describe as statecorporate capture 90,91,92. The rules of the game are written by and for those nearest the monetary spigot: the central banks, commercial lenders, and financial intermediaries who benefit first from new liquidity while the public absorbs the inflationary aftermath.

This is not *capitalism* in any meaningful sense of open exchange or fair competition; it is **crony capitalism**—a hybrid regime in which political favour and monetary privilege override market accountability. Many people, understandably disillusioned by widening inequality, rail against "capitalism" itself without realizing that what they are experiencing is its counterfeit form. True markets reward innovation and productive exchange; crony capitalism rewards proximity to power⁹³. Crony capitalism is the embodiment of "socialism for the rich and rugged free enterprise capitalism for the poor," as Dr. Martin Luther King described it94. What we need is fair, transparent and free markets for all.

In Canada, the pandemic-era liquidity programs made this imbalance even more visible. Asset markets soared while wages stagnated; large corporations gained subsidized credit while small cooperatives, credit unions, and local businesses were suffocated by compliance burdens and

banking gatekeeping. The result was a concentration of both wealth and influence, deepening economic inequality and democratic alienation⁹⁵. Progressive movements committed to equity and accountability must therefore expand their critique: not of markets *per se*, but of the monetary structures that have converted markets into monopolies and democracy into debt.

Bitcoin offers a path back to economic pluralism and decentralization, principles deeply compatible with progressive values. Because no authority can mint new supply or arbitrarily change the rules, it eliminates the structural privileges that fuel crony capitalism. Bitcoin's open ledger and permissionless architecture replace opacity with transparency, giving citizens the

ability to verify rather than trust. This design embodies the egalitarian principle of "equal rules for all"—not in rhetoric, but in code.

For progressives, the significance of Bitcoin lies not in deregulation but in redemocratization. It redistributes power away from entrenched financial elites and toward communities, cooperatives, and individuals. By minimizing gatekeepers, it allows local economies to thrive on fair terms—whether through community credit networks, cooperative savings systems, or fair-trade remittances unburdened by extractive intermediaries. In doing so, Bitcoin restores the moral and democratic balance that progressives have always sought: a financial system that serves people rather than the powerful.

Bitcoin: Fixing the Foundation of a Broken System

Monetary reform has always stood at the heart of social reform. Every era that has sought to expand democracy—from the abolition of feudalism to the establishment of universal suffrage, labour rights, and environmental stewardship—has had to confront a fundamental question: Who controls the money, and how is value defined?

In our own time, Bitcoin represents not merely a technological evolution in currency, but a moral reformation in the architecture of money itself. It challenges a century of monetary centralization that has eroded public trust, widened inequality, and untethered value from the realities of labour, ecology, and time.

Just as earlier reform movements reclaimed spiritual and political authority from hierarchical institutions, this new monetary reformation reclaims economic agency from the closed circuits of central banks and corporate financiers. Bitcoin offers a transparent, consensus-based alternative—one that re-links value creation to human effort and ecological constraint, rather than credit expansion and political discretion. In doing so, it restores integrity to the foundation upon which social and environmental progress depend.

Where fiat systems rely on authority and discretion, Bitcoin relies on transparency and consensus. It transforms monetary trust from something issued by power into something verified by mathematics—a shift as profound as the transition from monarchy to democracy. In this sense, Bitcoin is not merely a new financial instrument; it is a new civic language of value. Its code encodes principles long championed by progressive movements: fairness, autonomy, accountability, and stewardship of the commons.

4.1 TRUTH IN MONEY: THE PRINCIPLE OF FIXED SUPPLY

At the heart of Bitcoin's design is its fixed supply of 21 million BTC⁹⁶—a radical departure from the inflationary logic of modern fiat currencies such as the Canadian dollar, U.S. dollar, and Euro. This hard limit encodes an ethic of restraint: a recognition that real value must be bound to real scarcity. In contrast to our current monetary order premised on perpetual expansion, Bitcoin's design mirrors the physical and ecological limits of the world we inhabit⁹⁷. Philosopher Robert Breedlove calls this principle "truth in money"—the idea that a just society must anchor its economic system in objective reality rather than political discretion.

Bitcoin's difficulty adjustment perfects this principle of honesty98. Every two weeks, the network recalibrates the computational challenge miners must solve so that blocks continue to be produced at a steady rate, regardless of how much new energy or hardware joins the network. This automatic calibration removes human discretion from monetary issuance. It ensures that no authority—political or corporate—can accelerate production or inflate supply. In a world where fiat systems bend to political expediency, Bitcoin's difficulty adjustment stands as a mechanical guarantee of fairness: policy by mathematics, not manipulation.

By resisting debasement, Bitcoin restores the moral link between work, time, and reward. Inflation silently taxes labour and savings, eroding the wealth of workers, retirees, and the poor while rewarding speculation, leverage, and proximity to credit creation. Under such a system, diligence is punished and debt is subsidized—a quiet inversion of justice that

corrodes social trust. A fixed-supply monetary framework reverses that dynamic, ensuring that value grows from contribution, not privilege. It protects the dignity of earned income, enables honest long-term planning, and re-establishes the notion that prosperity should be cumulative, not extractive.

For progressives, this represents more than fiscal discipline—it is social equity encoded in code. A transparent and incorruptible money supply re-grounds economics in the same principles that sustain democracy and ecology: stewardship, accountability, and respect for natural limits. By fixing the money, Bitcoin doesn't constrain human potential—it liberates it from manipulation, allowing growth to be measured by innovation and cooperation rather than inflation and debt.

4.2 EQUALITY BY DESIGN: OPEN SOURCE AND UNIVERSAL ACCESS

Bitcoin's network is open to anyone, anywhere. Participation requires no identification, permission, or institutional affiliation—only a mobile device and a connection to the network. This universality dismantles the geographic, class, and bureaucratic barriers that define the legacy banking system. For billions of people excluded from formal finance, Bitcoin is the first truly global tool of economic inclusion—a public network that treats every participant as an equal peer rather than a customer to be profiled, approved, or denied.

Openness is not only a matter of access; it is also a principle of governance. Bitcoin's open-source code allows anyone to inspect, verify, and build upon it, ensuring that the system's rules are transparent and its evolution is consensual. No private boardroom or government agency decides who may participate or which transactions are valid. In this sense, Bitcoin transforms

inclusion from a policy aspiration into a technological reality: equality before the protocol.

For Canada's diverse society, these implications are profound. Immigrants, refugees, and Indigenous entrepreneurs can save and transact without relying on banks that often impose prohibitive fees, identification hurdles, or geographic constraints. Small businesses, cooperatives, and artists can engage directly in global trade without surrendering margins to intermediaries. This is economic participation on human terms—permissionless, borderless, and censorship-resistant.

Bitcoin thus embodies the social-democratic ideal of equality of opportunity—the conviction that participation in economic life should depend on merit and initiative, not on privilege or proximity to power. By removing structural barriers and gatekeepers, it restores a fundamental principle of democracy: that access to the marketplace, like access to the ballot box, should be universal⁹⁹.

4.3 FREEDOM IN CODE: PRIVACY AND FINANCIAL AUTONOMY

In an age of expanding surveillance and algorithmic control, Bitcoin stands as a technological defense of individual autonomy and civic freedom. It allows individuals to transact without intermediaries that can monitor, censor, or freeze funds. This is not an act of rebellion; it is an affirmation of democratic sovereignty—the principle that free people must have the right to exchange value without coercion.

"Surveillance finance" threatens the very foundations of liberal democracy by turning financial participation into a form of data extraction and behavioral control. The risks and threats to privacy and freedom are even greater in our digital age.

A disturbing number of governments around the world are exploring or implementing Central Bank Digital Currencies (CBDCs), like the digital yuan which the Chinese government uses to surveil and control its population. Numerous civil liberties and human rights groups worldwide have sounded the alarm regarding CBDCs^{100,101} and, thankfully, 82 percent of Canadians have indicated they are strongly opposed to a CBDC in Canada, causing the Bank of Canada to scale back its program¹⁰². However, our central bank has not entirely ceased this line of activity and regions such as Europe are moving forward with plans for a CBDC (eg, digital euro). Canadians should consider this an ongoing threat to our privacy and civil rights.

Bitcoin's cryptographic structure resists that threat. It protects privacy as a public good, not as secrecy but as dignity. Bitcoin helps protect the right to maintain a private sphere of agency within a transparent world. In this sense, Bitcoin extends into the economic domain the same rights of conscience and association that undergird political freedom¹⁰³. The importance and value of this in an era of CBDCs and other mechanisms of financial surveillance cannot be overstated.

4.4 PROOF OF WORK: ENERGY AS THE FOUNDATION OF MONETARY INTEGRITY

At the core of Bitcoin's design is its Proof-of-Work (PoW) consensus mechanism—a system that grounds digital value in physical reality. Unlike fiat currency, which can be created at will, Bitcoin requires the expenditure of real energy to issue new coins and secure the network. This linkage between computation and energy consumption ensures that money cannot be

conjured from nothing; it must be earned through measurable effort and resource commitment. In this way, Proof-of-Work transforms electricity into trust—a universal metric that anchors digital value in the laws of thermodynamics rather than the whims of politics.

Far from being wasteful, this process redefines what "productive energy use" means. By monetizing excess or stranded power-hydroelectric in Quebec, wind in Texas, geothermal in Iceland, or microhydro in Kenya-Bitcoin converts otherwise idle capacity into economic security. In regions such as Kenya, Malawi, and Zambia, companies like Gridless are deploying smallscale mining operations to stabilize rural microgrids and finance local electrification. In Bhutan, hydro-powered mining revenues are funding national development. Across these contexts, Proof-of-Work acts not as an energy drain, but as an incentive for innovation, efficiency, and investment in new infrastructure 104,105.

Philosophically, Proof-of-Work embodies the same principle of fairness that underlies all sound economics: value must arise from work, not decree. Just as a gold coin once represented stored labour and energy, each Bitcoin represents verifiable expenditure—a proof that cost was borne and effort applied. This relationship between energy and money reintroduces honesty into the financial system. It ensures that creation of value cannot be separated from the physical and ecological constraints that sustain civilization itself.

For progressives, this is not merely a technical breakthrough but a moral one. Proof-of-Work restores accountability to the creation of money, linking economic growth to tangible inputs and human stewardship. It offers a way to align prosperity with reality—to ensure that our digital future remains grounded in the same natural laws

and moral limits that govern the material world.

4.5 THE TIME VALUE OF WORK: RESTORING STABILITY TO LABOUR AND PENSIONS

Progressive politics has always defended the rights of workers and retirees-yet the monetary system that underpins wages and pensions steadily erodes their value. Under inflationary fiat regimes, the real worth of savings, salaries, and benefits is quietly diminished year after year. Contracts negotiated in nominal terms lose purchasing power before they are even renewed; pension funds dependent on low-yield bonds or inflated equities struggle to keep pace with reality. This erosion forces workers to renegotiate not only wages but dignity itself-living in a constant cycle of insecurity where time, the most finite human resource, is devalued by design.

Bitcoin offers a structural remedy to this injustice. With its fixed supply and transparent issuance, it acts as a hedge against systemic inflation risk—preserving purchasing power across decades and enabling intergenerational equity. By holding a small, prudent allocation of Bitcoin within pension funds, labour unions, and cooperative reserves, institutions can diversify away from the vulnerabilities of perpetual monetary expansion. This is not speculation but risk management grounded in responsibility—a reassertion of stewardship over the future value of human work^{106,107}.

In this light, Bitcoin becomes more than a new asset; it represents a renewal of the social contract between labour, time, and reward. A monetary system that protects workers' stored effort from debasement restores the moral meaning of work itself. It ensures that productivity serves people, not policy; that retirement security reflects

contribution, not proximity to credit creation. For progressives, the promise of Bitcoin is not only freedom from financial manipulation but the restoration of fairness—a money that keeps faith with those who earn it.

4.6 RESTORING INTEGRITY: THE MORAL REFORMATION OF MONEY

Ultimately, Bitcoin's most radical contribution is moral. It reintroduces honesty and accountability into money—the foundation upon which every other social system rests. In an era when political expedience and monetary manipulation have normalized deceit, Bitcoin stands apart as a form of truth rendered in code. As philosopher Robert Breedlove observes, "Sound money is the language of value spoken without coercion." Bitcoin encodes that ethic mathematically, ensuring that its rules cannot be rewritten for political convenience or corporate gain¹⁰⁸.

By grounding economic exchange in verifiable truth, Bitcoin restores the rightful relationships between effort and reward, production and value, human action and consequence. It transforms money from a tool of control into a medium of trust. To fix the money is therefore to realign markets with morality, technology with ecology, and finance with democracy. It is to replace the arbitrary with the accountable, and the extractive with the equitable.

For progressive movements, this is not a retreat from social responsibility but a renewal of it. Bitcoin challenges Canada—and the world—to rediscover the moral purpose of money as a social covenant: a shared measure of trust that binds citizens, labour, and institutions in mutual accountability. In doing so, it invites a new chapter of reform in which sound money becomes the foundation of social justice, environmental stewardship, and democratic

renewal. Fixing the money, in this sense, is not merely an economic act—it is a moral restoration of the human condition itself.

BITCOIN IN MOTION: A GLOBAL NETWORK OF HUMAN PROGRESS

It can be difficult to picture how a decentralized digital network could advance progressive aims such as equity, sustainability, and freedom. Yet, here in Canada and around the world, ordinary people, grassroots organizations, and companies are using Bitcoin to solve real world problems, each and every day.

They are bypassing economic, social and political barriers that keep individuals, groups and entire communities excluded from financial rails and opportunities for sustainable growth. They are powering renewable-energy projects and scaling electrification. And, they are defending civil and human rights under immense pressure.

The following small sample of stories from around the world offer a compendium of possibility: glimpses of what the world could look like if progressive parties and civic movements embrace Bitcoin as a practical instrument of inclusion and self-determination.

Afghan tech-entrepreneur Roya Mahboob forged a path to financial security for women in a society where access to banks required a male guardian. Through her organization, she began paying teenage girls in Bitcoin for blogging and digital-education work, bypassing the patriarchal gatekeepers of the legacy financial system. When the country's banks were shuttered and savings threatened under Taliban rule, Mahboob shifted focus to global teaching: she now trains women's groups around the world in using Bitcoin as a human rights tool. In 2013, TIME Magazine named her one of the 100 most influential people in

- the world. Mahboob's message is clear: financial inclusion is more than access—it is autonomy, dignity and the right to control value on one's own terms. Bitcoin is an unprecedented tool to make this a reality^{109,110,111}.
- In the heart of the Democratic Republic of Congo, the continent's oldest national park, Virunga National Park, faced a dire crisis: tourism revenue collapsed amid armed conflict and pandemic. Armed militias threatened both rangers and cocoa farmers, and hydro-plants built with donor funds sat idle with no grid buyers. In response the park's leadership pivoted to a novel model—leveraging surplus hydroelectric power to mine Bitcoin, using the income to pay park ranger salaries and keep the park operational. Simultaneously, a new venture, Virunga Origins, opened Congo's first chocolate factory, sourcing cocoa from smallholders around the park. They use excess heat from Bitcoin mining containers to dry beans while factory profits are reinvested into the local economy. What was once a place of extraction and poverty is now reimagining finance, energy and agriculture: Bitcoin becomes the glue binding conservation, community livelihoods and local manufacturing together in one unbroken loop of value 112,113,114.
- In Vancouver, more than 100 brickand-mortar merchants—including cafés, boutiques, service providers, and tech shops—now accept Bitcoin payments, making the city Canada's

- fastest-growing local Bitcoin circular economy. Behind this uptake is a grassroots coalition: the local group BTC VanCity organizes community education sessions, community clean-up activities, merchant onboarding events, Bitcoin payments workshops, and more. The city hosted a major **Learning Bitcoin** conference in August 2025¹¹⁵, propelling momentum even further. These developments have found major support from Mayor Ken Sim and Vancouver City Council who successfully moved a December 2024 motion directing city staff to explore steps for accepting Bitcoin for fees and taxes, and to add Bitcoin to the city's treasury reserves. There is even a proposal under review to heat the city's famous Kitsilano Pool via Bitcoin mining to generate new revenue for the city¹¹⁶. Mayor Sim believes that Vancouver can and should become a global leader in municipal Bitcoin integration 117,118. Vancouver is not alone on Canada's west coast; Bitcoin adoption is spreading fast throughout British Columbia and eastward, in Alberta.
- In Mossel Bay, South Africa, overlooking the Indian Ocean, Bitcoin Ekasi provides surf and life skills training to youth from the local township, rewarding them and paying local coaches, also from the township, all in Bitcoin. The organization has evolved from the beaches up into the township itself where a vital Bitcoin circular economy is flourishing: local shops accept Bitcoin, youth teach elders to use mobile wallets, and families are gradually being lifted out of poverty^{119,120}. The organization has built an education centre in the

- township, is partnering with the local school, and has launched a micro-business incubator for township carpenters and tailors where participants earn Bitcoin for training, then accept Bitcoin for their services. The organization has also inspired the development of other local Bitcoin circular economies throughout South Africa, which are adapting Bitcoin Ekasi's model and success to their local realities^{121,122,123}.
- In the former mill-town of Canal Flats, British Columbia, a rural community shifting away from logging has partnered with Iris **Energy**, a clean-energy Bitcoin mining venture to restore economic opportunity. The initiative transformed a decommissioned industrial infrastructure into a Bitcoin mining facility, and is converting surplus hydroelectric capacity, helping stabilize regional power costs. They have created a job training program for local workers and forged partnerships with Indigenous neighbours. What was once a shrinking forestry town now finds new agency by aligning its energy abundance and human capital with the architecture of sound money¹²⁴.
- A women's farming collective has partnered with **Bitcoin Jungle**, a large Bitcoin-based circular economy in Uvita, Costa Rica, to establish a famers' market and sell produce directly to customers via Bitcoin. Women from the group use their phones to save and spend in Bitcoin, avoiding exploitative middlemen and the risk of theft that accompanies cash-based economies. What began

- as a farmers' market has become a lesson in gender equity and digital independence¹²⁵.
- Deep in remote areas of Kenya, Malawi, Zambia and South Africa, Gridless installs small micro-grids in off-grid villages, harnessing untapped hydro, geothermal and biomass energy to mine Bitcoin. This ability to monetize previously latent energy sources, far from existing energy grids, makes electrification viable for the first time. Tens of thousands of local residents in these communities, along with small businesses, are gaining access to electricity for the very first time. Bitcoin mining has become a village utility, providing a path to economic growth, energy sovereignty, and improved wellbeing. In partnership with the Green Africa Mining Alliance, they have also developed A Blueprint for Bitcoin Mining and Energy in Africa to scale Bitcoin mining enabled electrification throughout the continent, all powered by renewable energy^{126,127,128,129}.
- As a foreign worker based in Amsterdam, **Viet** sends a monthly allowance in Bitcoin to his sister studying at Taiwan's National Tsinghua University, bypassing the excessive paperwork, delays and fees of traditional remittances. He uses a Bitcoin voucher system called Azteco so she can access funds in Taiwan with the ease of a top-up card—a small act of financial autonomy with global reach. Meanwhile, their mother in Vietnam saves in Bitcoin, valuing its direct accessibility and the ability to support both her daughter and

- diversify her own savings. Viet's story one of a dozen shared by Azteco shows how Bitcoin is not only a tool for distant crisis zones—it is enabling ordinary families to navigate global lives with dignity and digital freedom¹³⁰.
- In Nashville, Tennessee, Bitcoin Park serves as a physical campus for civic dialogue and open-source collaboration. Its members host workshops for journalists, teachers, and local officials, linking Bitcoin literacy to democratic participation—a modern community center for monetary civics. The campus serves as host each year to the Human Rights Foundation's annual Global Bitcoin Summit, which brings together over 125 human rights activists, educators, and community builders from around the world to harness Bitcoin in the struggle against financial repression under authoritarian rule.
- Across Africa, millions of people still rely on basic feature phones devices without internet, advanced features, or reliable data plans. Machankura steps into this gap by enabling Bitcoin payments entirely via USSD (Unstructured Supplementary Service Data) codes so users can send or receive Bitcoin with a simple code on their screen, iust like traditional mobile-monev menus. In practice, a user in Malawi could dial 3848333#, set up a Bitcoin wallet instantly, tied to their phone number or a friendly username, then receive Bitcoin from someone else, check balances or redeem a voucher—no internet required. This provides access to financial rails for some of the most marginalized,

social and economically excluded people in the world.

This small sample of stories from around the world shows how Bitcoin not only provides monetary reform, it provides physical and social infrastructure for human progress. From township entrepreneurs in South Africa to women's cooperatives in Costa Rica to renewable-energy innovators in Kenya to the everyday user in North America, Bitcoin is being harnessed to reclaim agency over money, energy, and opportunity. It embodies principles long championed by progressive movements—transparency, inclusion, decentralization, and environmental stewardship—translated into code and community practice.

Together, these vignettes illustrate a living proof-of-concept: when technology and finance align with moral architecture, the result is not disruption for its own sake but restoration of trust, autonomy, and shared prosperity.

These examples should not be mistaken for just a handful of isolated success stories. They are signposts of a growing global movement—an emergent monetary network connecting villages, cafés, energy sites, schools, small enterprises, and organizations across every continent. Platforms such as BTC Map¹³¹, Bitcoin

Travel¹³², and AirBTC¹³³ are now charting this living economy, giving shape and visibility to the thousands of merchants, communities, and service providers transacting in Bitcoin every day. What began as local experiments has evolved into an integrated web of exchange that transcends borders, politics, and legacy infrastructure.

At the heart of this global transformation stands the Federation of Bitcoin Circular Economies (FBCE)¹³⁴, which collaborates with more than a hundred community-based organizations worldwide - from Bitcoin Beach in El Salvador to Bitcoin Ekasi in South Africa and dozens of other community-based organizations - building local Bitcoin circular economies.

Meanwhile, major companies such as Square, Tesla, Tahini's, Steak 'n Shake, Pick n Pay and thousands of others are weaving Bitcoin into daily commerce, as both a payment medium and a treasury asset. This further dissolves the boundary between grassroots innovation and corporate adoption. Together, these initiatives reveal that Bitcoin is not a niche experiment but the blueprint of an inclusive socio-economic and financial commons: money for everyone, everywhere, born of code yet grounded in human purpose.

A SHARED BLUEPRINT FOR CANADA'S PROGRESSIVE FUTURE

To fix the money is to repair the foundation of every progressive cause—from workers' rights to climate justice, from housing affordability to Indigenous sovereignty, from social inclusion at home to human rights and global justice abroad. Canada's progressives have long understood that democracy depends on economic fairness and that fairness depends on transparency and accountability in how value is created, distributed, and preserved.

Bitcoin, as a decentralized and open monetary network, offers an unprecedented opportunity to renew these commitments. But realizing that opportunity requires coordination and courage across political lines. The challenges of inflation, inequality, energy transition, and digital rights transcend party boundaries. The New Democratic Party, Green Party, Liberal Party, and Bloc Québécois each bring distinctive strengths—social justice, ecological stewardship, innovation, and sovereignty—that, when combined, can form a unified and forward-looking monetary reform agenda for Canada.

These ten recommendations form a cohesive blueprint for Canada's progressive political parties to unite around a shared national agenda of fairness, sustainability, and democratic accountability. Together, they aim to align monetary innovation with social-justice traditions, environmental leadership, and community empowerment.

1. CREATE A NATIONAL SOUND-MONEY AND INCLUSION STRATEGY

Economic empowerment begins with access to fair and transparent financial systems. Millions of Canadians, particularly those in rural or Indigenous regions or living on low incomes, remain highly marginalized within our current financial system. vulnerable to

inflationary pressures that devalue their labour and earnings.

A National Sound-Money and Inclusion Strategy would provide the educational and infrastructural foundation to change this reality. Through coordinated federal and provincial initiatives, public institutions could promote financial literacy, opensource Bitcoin education, and equitable access to secure Bitcoin wallets via schools, libraries, and credit unions.

This strategy should also establish a National Dialogue on Monetary Ethics, a participatory process engaging unions, cooperatives, civil society groups, Indigenous communities, and youth movements in re-imagining money as a public good. Such a dialogue would reconnect Canadians with the moral foundations of economic life—fairness, transparency, and shared responsibility—and ensure that sound money principles are viewed as tools for empowerment, not exclusion.

2. BUILD CLIMATE-RESILIENT INFRASTRUCTURE BASED ON BITCOIN

Canada's renewable energy potential is vast, yet much of it remains underused or curtailed due to grid limitations, market inefficiencies, and excessive administrative red-tape. Bitcoin mining can transform these inefficiencies into environmental and economic assets. Recognizing Bitcoin mining as a flexible, demand-response technology would allow renewable producers to monetize surplus generation while enhancing grid stability.

When powered by clean energy or captured methane, mining can reduce emissions, accelerate renewable build-out, and provide new revenue for communities. Government support through targeted tax

credits, clean-energy grants, and flowthrough incentives would make Canada a global leader in Bitcoin mining innovation. Integrating Bitcoin into Canada's decarbonization strategy would turn waste into opportunity—establishing a modern, climate-resilient energy infrastructure aligned with the country's net-zero ambitions.

3. COMMIT TO *DEMINIMIS* TAX EXEMPTION FOR BITCOIN TRANSACTIONS

Current capital gains rules treat even small Bitcoin transactions as taxable events, creating unnecessary friction for citizens and entrepreneurs. To encourage everyday use and financial innovation, Canada should amend the Income Tax Act to introduce a *deminimis* exemption for Bitcoin transactions below a reasonable threshold—for example, below \$10,000.

Everyday purchases, remittances, and payments would thereby become taxneutral¹³⁵. This reform would normalize digital-currency use in commerce, support small businesses and self-employed Canadians, and reduce administrative complexity for both individuals and the Canada Revenue Agency. Removing these barriers would unleash dormant capital throughout the economy, promote competitiveness, and signal that Canada welcomes responsible innovation while maintaining fiscal transparency.

4. PROTECT CIVIL LIBERTIES IN DIGITAL FINANCE

As Canada explores digital identification systems and central-bank digital currency frameworks, it must preserve one of democracy's most fundamental freedoms: the right to transact without undue surveillance or discrimination. Financial privacy is the backbone of civil liberty—as essential as freedom of speech or association. Canada should enshrine in

legislation the right to peer-to-peer financial exchange, protected from arbitrary monitoring or censorship. Updating the Privacy Act and related financial-regulation statutes would ensure that digital-finance innovation strengthens, rather than undermines, personal autonomy. Such protections would guard against both corporate and governmental overreach, preventing the rise of "surveillance finance" and preserving the integrity of Canada's democratic and pluralist society.

5. SUPPORT UNION AND PENSION FUND DIVERSIFICATION

Canada's pension and labour-fund frameworks were built for a bygone era of predictable interest rates and fiat stability. Inflation, asset bubbles, and mounting debt now threaten retirees' purchasing power and intergenerational fairness.

Updating pension legislation to include Bitcoin within sustainability and fiduciary-duty standards is therefore an act of responsible modernization, not speculation. Amendments to the *Pension Benefits Standards Act (PBSA)* and equivalent provincial statutes—such as Ontario's *Pension Benefits Act* and Quebec's *Supplemental Pension Plans Act*—would permit modest, transparent Bitcoin allocations within ethical and environmental-governance guidelines.

These changes would protect the real value of workers' lifetime savings, encourage responsible financial innovation, and strengthen the long-term resilience of Canada's pension system. By diversifying beyond inflation-sensitive assets, Canada could reduce future taxpayer burdens while aligning pension governance with both fiscal prudence and social justice.

6. ADVANCE INDIGENOUS AND REGIONAL SOVEREIGNTY

Indigenous and rural communities often possess abundant renewable resources yet face barriers to accessing capital and energy markets. Bitcoin's distributed architecture provides a new avenue for self-determined economic development. Supporting the deployment of Bitcoin-powered microgrids and renewable-energy monetization models can allow communities to convert stranded or excess generation into local revenue, enhancing energy sovereignty and funding essential services.

These initiatives, developed through partnerships with Indigenous nations, regional authorities, and public utilities, would reinforce self-governance and reconciliation by ensuring that Canada's energy transition builds community wealth rather than dependency. Such an approach aligns technology with cultural values of stewardship, autonomy, and sustainability.

7. ESTABLISH A FEDERAL STRATEGIC BITCOIN RESERVE

Canada's fiscal and monetary resilience depends on maintaining reserves that can hedge against global currency volatility and systemic shocks. Bitcoin's scarcity, transparency, and neutrality make it a prudent addition to Canada's strategic-asset portfolio, complementing traditional foreign-exchange and gold reserves. The Government of Canada should establish a Strategic Bitcoin Reserve, like what other states are undertaking, to safeguard federal savings, diversify risk, and signal leadership in digital-monetary innovation.

A reserve of this nature would strengthen fiscal stability, enhance national security by reducing dependence on foreign currencies, and demonstrate that Canada is willing to lead in building a transparent, technologically adaptive financial system.

8. PILOT MUNICIPAL BITCOIN TREASURIES

Municipalities, which often face inflationary pressures and infrastructure funding gaps, should be empowered to explore new fiscal tools. Allowing cities and towns to hold modest Bitcoin reserves within existing financial-oversight frameworks would provide a limited but effective hedge against currency depreciation.

Municipal Bitcoin treasuries could be used to finance green infrastructure, affordable-housing projects, and community-energy programs. By piloting such initiatives under transparent governance, municipalities would demonstrate how local governments can use decentralized finance to build fiscal resilience and transparency. These pilots would also generate valuable data for other jurisdictions considering similar innovations.

9. PROMOTE LOCAL CIRCULAR ECONOMIES

Sustainable prosperity depends on keeping wealth circulating locally rather than being extracted by global intermediaries. Bitcoin enables precisely this kind of grassroots economic empowerment. By supporting cooperatives, credit unions, and community enterprises that use Bitcoin for local trade, remittances, and peer-to-peer financing, Canada can foster resilient, inclusive economies rooted in mutual support.

Federal and provincial grant programs could provide seed funding, education, and technical assistance to help communities implement Bitcoin-enabled circular-economy models. Such initiatives would reflect the cooperative traditions central to Canada's progressive movements and strengthen the fabric of community life by linking local production, finance, and trust.

10. INCLUDE BITCOIN IN INTERNATIONAL DEVELOPMENT POLICY

Around the world, Bitcoin is already being used to advance human rights, reduce

remittance costs, and finance renewableenergy projects in regions where traditional banking infrastructure is weak or exclusionary. Integrating Bitcoin into Canada's international-development policy would amplify the country's leadership in ethical innovation and sustainable growth. By partnering with non-profits, cooperatives, and international agencies, Canada could fund pilot programs that use Bitcoin to build circular economies, enhance financial inclusion, and promote energy access in developing nations. Doing so would extend Canada's influence as a compassionate, forward-looking nation while demonstrating how open monetary networks can serve the global common good.

A UNIFIED PROGRESSIVE AGENDA FOR MONETARY RENEWAL

Taken together, these ten recommendations outline a unified path toward monetary reform as social reform—a vision that reconnects Canada's economic

systems with the values of fairness, sustainability, and human dignity. By embracing Bitcoin as public infrastructure rather than private speculation, Canada's progressives can lead a generational transformation: one that restores integrity to money, strengthens democracy, and builds a truly inclusive economy for the future.

A cross-party commitment to these recommendations would mark a generational turning point for Canadian progressivism. It would demonstrate that the values of justice, sustainability, and innovation can transcend partisanship when anchored in shared values and moral purpose. By embracing Bitcoin not as a partisan issue but as public infrastructure for economic integrity, Canada's progressives can lead the world in proving that monetary reform is the next frontier of social democracy—one capable of empowering communities, protecting the planet, and restoring trust in public life.

CONCLUSION: THE MORAL IMPERATIVE OF MONETARY RENEWAL

To fix the money is to heal the system that sustains democracy itself. Every struggle for fairness, sustainability, and dignity depends on the integrity of the foundation upon which society's promises are built. Inflation, corruption, and monetary opacity do not simply distort markets — they erode trust, weaken solidarity, and corrode the moral fabric that binds a people together.

For Canada's progressive movements, embracing Bitcoin is not a retreat from principle but a return to it. It is the fulfillment of a century-long quest for economic justice, social democracy, and stewardship of the commons. Sound money — money that cannot be debased, manipulated, or monopolized — is the ecological and ethical bedrock upon which fairness, inclusion, and sustainability can endure. It aligns human systems with natural limits. It rewards cooperation over exploitation. It restores accountability to both government and markets.

Bitcoin is not an ideology. It is a public good—a tool of renewal that allows citizens, communities, and nations to reassert control over their economic lives. By uniting technology with moral purpose, it offers a pathway to reconcile economics with ecology, innovation with responsibility, and freedom with solidarity. It reimagines money not as a weapon of power but as a medium of trust—one open to all, owned by none, and accountable to everyone.

The choice before Canada's progressives is therefore historic. They can defend an

inflationary system that quietly transfers wealth upward, fuels environmental destruction, and hollows out democratic institutions—or they can lead the transition toward a transparent, sustainable, and truly democratic financial future.

Embracing Bitcoin is not about abandoning social justice; it is about anchoring it in truth. It is about ensuring that the value of work, the stability of savings, and the integrity of public institutions are no longer hostage to forces of speculation and debt. It is about giving every person — from the northern communities of Quebec to the coasts of British Columbia — a stake in a fair, resilient, and honest economy.

To fix the money is to renew democracy, empower labour, and restore harmony between the economic and the ecological. It is to align Canada's political ideals with the architecture of integrity that Bitcoin makes possible. The progressive movement stands at a crossroads: it can continue managing the symptoms of systemic decay, or it can cure the disease at its root.

The future of Canada's democracy will not be written in slogans or subsidies but in the ethics of its money. Bitcoin gives progressives a chance to lead not only in policy but in principle—to stand once again where the moral and the practical meet, and to show the world that a just and sustainable future begins by building on sound foundations.

ENDNOTES

1

¹ Emma Apatu, "Bitcoin & Public Health: Addressing the Debt-Money Crises," *Bitcoin Magazine*. March 28, 2024. https://bitcoinmagazine.com/culture/bitcoin-public-health-addressing-the-debt-money-crises

² Seb Bunney. The Hidden Cost of Money: How Financial Forces Shape Our Lives & the World Around Us. 2023. https://sebbunney.com/the-hidden-cost-of-money

³ Max Raskin & Richard Epstein. "A Wall of Separation Between Money and State: Policy and Philosophy for the Era of Cryptocurrency". *The Brown Journal of World Affairs*, 29, no. 2 (Spring/Summer 2023): 1-16. July 1, 2023. https://laweconcenter.org/resources/a-wall-of-separation-between-money-and-state-policy-and-philosophy-for-the-era-of-cryptocurrency

⁴ Josef Tětek. *Bitcoin: Separation of Money and State*. Braiins, 2023. https://braiins.com/books/bitcoin-separation-of-money-and-state

⁵ Andrew M. Bailey et al. *Resistance Money: A Philosophical Case for Bitcoin*. Routledge Press, 2024. https://www.resistance.money

⁶ Marquise Francis. "'Bitcoin is absolutely a tool for social justice': ex-government regulator turned crypto adviser". *Yahoo Finance*. January 15, 2022. https://finance.yahoo.com/news/bitcoin-tool-for-social-justice-ex-government-regulator-turned-crypto-adviser-123417764.html

⁷ Trey Walsh, "Why Bitcoin Was Created and Why It Matters to Progressives" *The Progressive Bitcoiner*. August 27,2025. https://progressivebitcoiner.org/why-bitcoin-was-created-and-why-it-matters-to-progressives

⁸ Roger Huang. "As Pension Funds Buy Bitcoin, A New Path In Its History Is Traced". *Forbes*. June 12, 2025. https://www.forbes.com/sites/digital-assets/2025/06/12/as-pension-funds-buy-bitcoin-a-new-path-in-its-history-is-traced

⁹ Bitcoin Mining Council. *Global Sustainability Report*, 2023. https://grn-energy.com/updates/bmcs-sustainable-bitcoin-mining-63-renewable-energy-43-global-share

¹⁰ Alexander Neumueller et al. *Cambridge Digital Mining Industry Report: Global Operations*, *Sentiment*, and Energy Use. April 2025. https://www.jbs.cam.ac.uk/faculty-research/centres/alternative-finance/publications/cambridge-digital-mining-industry-report

¹¹ Rian Dewhurst. "How Bitcoin mining stabilized the grid, saved Texans \$18 billion, and earned the ire of Berkshire Hathaway Energy". *Digital Assets Research Institute*. January 20, 2025. https://www.da-ri.org/articles/how-bitcoin-mining-saved-texans-18-billion

¹² Ali Hakimi et al. "Renewable energy and Bitcoin: A dual approach to economic viability and environmental sustainability". *Heliyon*. Volume 10, Issue 22. November 30, 2024. https://www.cell.com/heliyon/fulltext/S2405-8440(24)15796-9

¹³ Bitcoin Coalition of Canada. Leveraging the Economic, Social and Environmental Benefits of Bitcoin for Canada and the World: Federal Policy Recommendations. January 2025. https://bitcoincoalition.ca/2025-01-15-news-release

¹⁴ "Made for People. Built for Canada". NDP Platform, 2025. https://www.ndp.ca/campaign-commitments

 $\frac{\text{https://primal.net/a/naddr1qvzqqqr4gupzpl2lsdahs0sx4zpmkf5d0yd23xs2ahes9y560jxkcu2wulmmv2dzqpl8g6r9945kuanfwd5kymr9945x2ctvw35z6arp0qkksmmh94hh2u3dd4hkuete945k6urpvd68xttgv4skcarg94skuepdwa58jttnda6kuepdd4hkuete943k7atvvskhgunpdeekvmmjd5khwetvd33x26twvukkzm3dv4u8qmr0wfshgmmj0ykk27rpd45kuct5d9hku4e7ey7}$

- ¹⁷ "IATSE Local 728 Becomes First Private-Sector Union to Invest in Bitcoin". *Bitcoin Magazine*. March 13, 2025. https://www.nasdaq.com/articles/iatse-local-728-becomes-first-private-sector-union-invest-bitcoin
- ¹⁸ Sophie Smith. "More pension funds looking at Bitcoin as a long-term strategic asset". *PensionsAge Magazine*. January 7, 2025. https://www.pensionsage.com/pa/More-pension-funds-looking-at-bitcoin-as-long-term-strategic-asset.php
- ¹⁹ Josh Welsh. "Why Bitcoin might belong in pensions". *Benefits and Pensions Monitor*. April 2, 2025. https://www.benefitsandpensionsmonitor.com/investments/alternative-investments/why-bitcoin-might-belong-in-pensions/391795
- ²⁰ Scott A. Wolfe "Going Further Upstream on the Social Determinants of Health. A Call to Action.". March 11, 2024. https://www.linkedin.com/pulse/going-further-upstream-social-determinants-health-call-scott-a-wolfe-v6oic

¹⁵ Emma Apatu, "The Invisible Health Tax: How Our Money Impacts Health and Why Sound Money Could Transform Well-Being - An Exploratory Examination". *MedSchlr*. October 17, 2025.

¹⁶ Proof of Workforce. https://proofofworkforce.org

²¹ NDP Platform, 2025. Op cite.

²² NDP. Leadership 2026. https://leadership.ndp.ca

²³ Green Party of Canada. CHANGE: Platform 2025. https://www.greenparty.ca/en/our-plan

²⁴ Rachel Cooper. "Elliot David on how bitcoin can support a sustainable investment strategy. Can Bitcoin truly support both profitability and planet-friendly investing?" *Climate Action*. November 21, 2024. https://www.climateaction.org/climate-leader-interviews/elliot-david-on-how-bitcoin-can-support-assustainable-investment-strategy

²⁵ Bitcoin Mining Council. Global Sustainability Report, 2023. Op cite.

 $^{^{26}}$ Ali Hakimi et al. "Renewable energy and Bitcoin: A dual approach to economic viability and environmental sustainability" Op cite.

²⁷ Visit: https://www.hivedigitaltechnologies.com, https://hut8.io, https://iren.com, <a href="https://iren.com

²⁸ The Bitcoin Way. *Bitcoin for Business - Advantages and Use Cases*. May 12, 2023. https://www.linkedin.com/pulse/bitcoin-business-advantages-use-cases-thebitcoinway

²⁹ Rivier University. Examining the Pros and Cons of Bitcoin for Small Business. https://www.rivier.edu/academics/blog-posts/examining-the-pros-and-cons-of-bitcoin-for-small-business

³⁰ Green Party of Canada. *Constitution of the Green Party of Canada*. Lasted amended February 2025 by the general membership of the Party. https://www.greenparty.ca/en/constitution-of-the-green-party-of-canada

https://www.researchgate.net/publication/391805010_Indigenous_Digital_Sovereignty_Data_Cooperatives_as_the_New_Standard_for_an_Inclusive_Digital_Economy

³¹ Government of Canada. *Treasury Board of Canada Secretariat 2025-26 Departmental Plan at a glance*. https://www.canada.ca/en/treasury-board-secretariat/corporate/reports/treasury-board-canada-secretariat-2025-26-departmental-plan-at-glance.html

³² Alyea Cyr Connell. *Indigenous Data Sovereignty (DDN3-A11)*. Canada School of Public Service. January 8, 2025. https://www.csps-efpc.gc.ca/tools/articles/indigenous-data-sovereignty-eng.aspx

³³ Silvio Andrae. "Indigenous Digital Sovereignty: Data Cooperatives as the New Standard for an Inclusive Digital Economy?" *Revaluation and Preservation of Indigenous Knowledge Systems in Modern Society*. May 2025.

³⁴ Government of Canada. Annual Report to Parliament 2024 and Third annual progress report on the implementation of the UN Declaration on the Rights of Indigenous Peoples Act. https://www.sac-isc.gc.ca/eng/1728913460798/1728913482672 and https://www.justice.gc.ca/eng/declaration/report-rapport/2024/index.html

³⁵ Government of Canada. Department of Finance, *Budget Summary 2024*. https://budget.canada.ca/2024/home-accueil-en.html

³⁶ Government of Canada. Innovation, Science and Economic Development Canada *Canada's Digital Charter*. https://ised-isde.canada.ca/site/innovation-better-canada/en/canadas-digital-charter-trust-digital-world

³⁷ Bloc Québécois, *Programme* 2025. https://www.blocquebecois.org/wp-content/uploads/2025/02/programmedubloqc.pdf

³⁸ Stéphane Blais. "An independent Quebec would be a green economy leader, Bloc Québécois chief says". *Montreal Gazette*. May 14, 2024. <a href="https://montrealgazette.com/news/quebec/an-independent-quebec-would-be-a-green-economy-leader-bloc-quebecois-chief-says#:~:text=Article%20content-,Article%20content,in%20office%20before%20the%20start.

³⁹ Allison Clark et al. *Québec's Digital Economy: Outlook 2030*. Information and Communications Technology Council (ICTC), April 2025. Ottawa, Canada. https://ictc-ctic.ca/reports/quebecs-digital-economy-outlook-2030

⁴⁰ Le Réseau COOP. https://reseau.coop

⁴¹ Max Raskin & Richard Epstein. "A Wall of Separation Between Money and State: Policy and Philosophy for the Era of Cryptocurrency". Op cite.

⁴² Josef Tětek. Bitcoin: Separation of Money and State. Op cite.

⁴³ Andrew M. Bailey et al. Resistance Money: A Philosophical Case for Bitcoin. Op cite.

⁴⁴ CBC News. "In a pitch to cryptocurrency investors, Poilievre says he wants Canada to be 'blockchain capital of the world". March 28, 2022. https://www.cbc.ca/news/politics/poilievre-bitcoin-policy-1.6399986

⁴⁵ Pierre Poilievre. "We bought the shawarma with Bitcoin!". March 28, 2022. https://youtu.be/VWeJEdudCjE?si=3kGEbGsRui-PDt50

⁴⁶ Pierre Poilievre. "Wages go up in smoke". April 1, 2022. https://youtu.be/maGmb1QKvh8?si=YZn3LgLwm7lFaMzZ

- ⁵¹ Elliot David. "Bitcoin isn't right or left it's forward. We shouldn't let bitcoin's potential become overshadowed by political maneuvering". *Blockworks*. June 27, 2024. https://blockworks.co/news/bitcoin-right-left-politics-neutral?utm_source=chatgpt.com
- ⁵² The Nakamoto Project. 2025 American Bitcoin Survey Report. https://www.thenakamotoproject.org/report
- 53 Ibid
- 54 Ibid
- ⁵⁵ Viet Vu. "Percentage of women in tech has largely stagnated for 20 years this must change". *Globe and Mail*. July 30, 2023. https://www.theglobeandmail.com/business/commentary/article-women-techworkers-canada
- ⁵⁶ Jennifer Itzkowitz et al. "The Gender Gap in Stock Market Participation: Evidence from Stock Gifting". FDIC. March 8, 2024. https://www.fdic.gov/analysis/consumer-research/conferences/2024/papers/iskowitz-paper.pdf
- ⁵⁷ "Chancellor on Brink of Second Bailout for Banks". *The London Times*. January 3, 2009 (Bitcoin genesis block headline). https://www.thetimes03jan2009.com
- ⁵⁸ MP Joël Lightbound on Bitcoin. *Statement by Members for HoC Sitting No. 243 44th Parliament Location: West Block Chamber*. October 31, 2023. https://youtu.be/MyjKwgtb7cM?si=1tZY0l_8uHXJfVU7
- ⁵⁹ Bitcoin Policy Summit 2023. Panel: "Bitcoin and Financial Inclusion". *Bitcoin Policy Institute*. https://www.youtube.com/watch?app=desktop&tv=V-XuJdEyS5Y
- 60 Isaiah Jackson. *Bitcoin & Black America*. 2019. https://www.amazon.ca/Bitcoin-Black-America-Isaiah-Jackson/dp/1079178090
- ⁶¹ Janell Ross. "Inside the World of Black Bitcoin, Where Crypto Is About Making More Than Just Money". TIME Magazine. October 15, 2021. https://time.com/6106706/bitcoin-black-investors
- 62 Charlene Hill Fadirepo. *The Bitcoin Leap: How Bitcoin Is Transforming Africa*. 2025. https://www.amazon.com.au/dp/B0DVJW2F7S?ref=cm_sw_r_ffobk_tw_ud_dp_HB9Q2X5GEVQCC590JVYM&ref_=cm_sw_r_ffobk_tw_ud_dp_HB9Q2X5GEVQCC590JVYM&social_share=cm_sw_r_ffobk_tw_ud_dp_HB9Q2X5GEVQCC590JVYM&bestFormat=true

⁴⁷ White House. Executive Order 14233: Establishment of the Strategic Bitcoin Reserve and the United States Digital Asset Stockpile. March 6, 2025. https://www.whitehouse.gov/presidential-actions/2025/03/establishment-of-the-strategic-bitcoin-reserve-and-united-states-digital-asset-stockpile

⁴⁸ Frank Corva. "Bitcoin Transcends the Left-Right Political Divide — It's a Tool for Human Rights". Bitcoin Magazine. October 22, 2025. https://bitcoinmagazine.com/politics/bitcoin-transcends-the-left-right-political-divide-its-a-tool-for-human-rights

⁴⁹ Suman Kumar. *Reclaiming Sovereignty: How I Fell in Love with Bitcoin*. March 2025. https://reclaimsovereignty.com

⁵⁰ Natalie Brunell. *Bitcoin is for Everyone: Why our financial system is broken and Bitcoin is the solution*. November 2025. https://www.amazon.com/Bitcoin-Everyone-financial-system-solution/dp/1804091138

- 65 Dawdu M Amantanah. "Closing The Wealth Gap: Black America And Bitcoin Adoption". *Bitcoin Magazine*. October 8, 2021. https://bitcoinmagazine.com/culture/wealth-gap-black-america-bitcoin
- ⁶⁶ OSL Group. "How Bitcoin is Revolutionizing Cross-Border Money Transfers". April 22, 2025. https://www.osl.com/hk-en/academy/article/how-bitcoin-is-revolutionizing-cross-border-money-transfers
- ⁶⁷ Whitfield Diffie et al. "New Directions in Cryptography". *IEEE Transactions on Information Theory* 22, no. 6. November 1976. https://ee.stanford.edu/~hellman/publications/24.pdf
- ⁶⁸ David Chaum. "Blind Signatures for Untraceable Payments". *Advances in Cryptology*. 1983. https://sceweb.sce.uhcl.edu/yang/teaching/csci5234WebSecurityFall2011/Chaum-blind-signatures.PDF
- ⁶⁹ Wei Dai. "B-money Proposal". November 1998. https://nakamotoinstitute.org/library/b-money
- ⁷⁰ Nick Szabo, "Bit Gold". 1998. https://www.investopedia.com/terms/b/bit-gold.asp
- ⁷¹ Adam Back. "Hashcash A Denial of Service Counter-Measure". 1997. https://sites.cs.ucsb.edu/~rich/class/old.cs290/papers/hascash2.pdf
- ⁷² Ansel Lindner. "Bitcoin Prehistory Timeline." *Bitcoin and Markets*. 2019. https://www.bitcoinandmarkets.com/prehistory
- ⁷³ Timothy C. May. "The Crypto-Anarchist Manifesto" 1988. https://nakamotoinstitute.org/authors/timothy-c-may
- ⁷⁴ Eric Hughes. "A Cypherpunk's Manifesto". 1993. https://www.activism.net/cypherpunk/manifesto.html
- ⁷⁵ Michael J. Halvorson. "Judith Milhon: Hacking on the edges of polite computing society". *Medium*. March 27, 2021. https://halvormj.medium.com/judith-milhon-hacking-on-the-edges-of-polite-computing-society-5128e03ee141
- ⁷⁶ Andrew Lonero. "Bitcoin Is Not Crypto: Why It Matters". *The Progressive Bitcoiner*. July 15, 2025. https://progressivebitcoiner.org/bitcoin-is-not-crypto-why-it-matters
- ⁷⁷ Lyn Alden. Broken Money: Why Our Financial System is Failing Us and How We Can Make it Better. Timestamp Press, 2023. https://www.lynalden.com/broken-money
- ⁷⁸ Robert Breedlove. *The Number Zero and Bitcoin*. March 28, 2020. https://breedlove22.medium.com/the-number-zero-and-bitcoin-4c193336db5b
- ⁷⁹ Jeff Booth. The Price of Tomorrow: Why Deflation Is the Key to an Abundant Future. Stanley Press. 2019. https://thepriceoftomorrow.com
- ⁸⁰ Jason Maier. A Progressive's Case for Bitcoin: A Path Toward a More Just, Equitable, and Peaceful World. Second ed. October 2025. https://www.bitcoinprogressive.com

⁶³ Mickey Koss. "Black Bitcoin Billionaires On Education As A Force For Change". *Forbes*. January 4, 2024. https://www.forbes.com/sites/digital-assets/2024/01/04/black-bitcoin-billionaires-on-education-as-a-force-for-change

⁶⁴ Black Bitcoin Billionaire, supplemental resources. *Bitcoin Magazine*. https://bitcoinmagazine.com/tags/black-bitcoin-billionaire

⁸¹ Saifedean Ammous. *The Fiat Standard: The Debt Slavery Alternative to Human Civilization*. SaifHouse, 2021. https://saifedean.com/tfs

⁸² David Macdonald. "Platform crunch 3: Every party is promising tax cuts and cash transfers". Canadian Centre for Policy Alternatives. April 3, 2025. https://www.policyalternatives.ca/news-research/platform-crunch-3-every-party-is-promising-tax-cuts-and-cash-transfers

⁸³ River Financial. Cantillon Effect Explained. https://river.com/learn/terms/c/cantillon-effect

⁸⁴ Lyn Alden. *Broken Money*. Op cite.

⁸⁵ Government of Canada. *Fiscal Reference Tables 2024*. Department of Finance Canada. October 2024. https://www.fin.gc.ca/frt-trf/2024/frt-trf-24-eng.asp

⁸⁶ Jake Fuss et al. *The Growing Debt Burden for Canadians*: 2025 Edition. Fraser Institute. July 2025. https://www.fraserinstitute.org/studies/growing-debt-burden-canadians-2025-edition

⁸⁷ Jeff Booth. *The Price of Tomorrow*. Op cite.

⁸⁸ Lyn Alden. Broken Money. Op cite.

⁸⁹ Jeff Booth. *Broken Money*. Op cite.

⁹⁰ International Network for Economic, Social and Cultural Rights. *Manifestations of Corporate Capture*. https://www.escr-net.org/resources/manifestations-of-corporate-capture

⁹¹ Bobby Giggz. *The Final Stand: How Bitcoin is Dismantling the Financial Monopoly*. March 14, 2025. https://medium.com/@BobbyGiggz/the-final-stand-how-bitcoin-is-dismantling-the-financial-monopoly-fd71b6e6492b

⁹² Nasos Papadopoulos. "ML139: Andreas M. Antonopoulos on Crisis Economics, Crony Capitalism and The Future of Crypto". *MetaLearn*. May 6, 2020. https://www.metalearn.net/podcasts/ml139-andreas-m-antonopoulos-on-crisis-economics-crony-capitalism-and-the-future-of-crypto

⁹³ Institute for New Economic Thinking. "Crony Capitalism and the Financial Crisis." INET Working Paper, 2015. https://www.ineteconomics.org

⁹⁴ Dr. Martin Luther King Jr. "The Minister to the Valley". *Southern Christian Leadership Conference*. February 23, 1968. https://archives.libraries.emory.edu/repositories/7/archival_objects/353089

⁹⁵ Jim Stanford. "Canada's Crony Capitalism: The Pandemic and Corporate Power." Centre for Future Work, 2022. https://centreforfuturework.ca

⁹⁶ Ted Stevenot. "How does the bitcoin source code define its 21 million cap?" Unchained. February 28, 2025. https://www.unchained.com/blog/bitcoin-source-code-21-million

⁹⁷ Satoshi Nakamoto. *Bitcoin: A Peer-to-Peer Electronic Cash System*. October 31, 2008. https://bitcoin.org/bitcoin.pdf

⁹⁸ Lightspark. *The Purpose and Power of Bitcoin's Difficulty Adjustment*. July 17, 2025. https://www.lightspark.com/glossary/difficulty-adjustment

⁹⁹ The Progressive Bitcoiner. *Bitcoin: A Guide for Progressives - A Vision for Financial Inclusion*, *Democratic Values, and Economic Empowerment*. 2025. https://progressivebitcoiner.org/theguide

- ¹⁰⁰ Nicholas Anthony. *Digital Currency or Digital Control? Decoding CBDC and the Future of Money*. Cato Institute. June 2024. https://www.cato.org/books/digital-currency-or-digital-control
- ¹⁰¹ Justice Centre for Constitutional Freedoms. "New report explains how central bank digital currencies threaten freedom". March 17, 2025. https://www.jccf.ca/new-report-explains-how-central-bank-digital-currencies-threaten-

freedom/#:~:text=While%20the%20pursuit%20of%20innovation,Read%20the%20full%20report%20here.

- ¹⁰² Human Rights Foundation. *CBDC Tracker*, *Canada Country Profile*. https://cbdctracker.hrf.org/currency/canada
- ¹⁰³ Alex Gladstein. "Why Bitcoin Is Freedom Money". *Journal of Democracy*, Vol. 36, Issue 4. October 2025. https://www.journalofdemocracy.org/articles/why-bitcoin-is-freedom-money
- ¹⁰⁴ Rian Dewhurst. "How Bitcoin mining stabilized the grid, saved Texans \$18 billion, and earned the ire of Berkshire Hathaway Energy" Op cite.
- ¹⁰⁵ Joe Tidy. "Bitcoin in the bush the crypto mine in remote Zambia". *BBC World Service*. March 25, 2025. https://www.bbc.com/news/articles/cly4xe373p4o
- ¹⁰⁶ Sophie Smith. "More pension funds looking at Bitcoin as a long-term strategic asset". Op cite.
- ¹⁰⁷ Josh Welsh. "Why Bitcoin might belong in pensions". Op cite.
- ¹⁰⁸ Robert Breedlove. *The Number Zero and Bitcoin*. Op cite.
- ¹⁰⁹ Alex Gladstein. "Finding Financial Freedom In Afghanistan". *Bitcoin Magazine*. August 26, 2021. https://bitcoinmagazine.com/culture/bitcoin-financial-freedom-in-afghanistan
- ¹¹⁰ Sheryl Sandberg. "The 2013 TIME 100". *TIME Magazine*. April 18, 2013. https://time100.time.com/2013/04/18/time-100/slide/roya-mahboob
- ¹¹¹ Michael J. Casey. "Money Reimagined: Afghan Activist Roya Mahboob on Crypto". *CoinDesk*. September 14, 2021. https://www.coindesk.com/markets/2021/08/20/money-reimagined-afghan-activist-roya-mahboob-on-crypto
- ¹¹² Adam Popescu. "Gorillas, militias, and Bitcoin: Why Congo's most famous national park is betting big on crypto". *MIT Technology Review*. January 13, 2023. https://www.technologyreview.com/2023/01/13/1066820/cryptocurrency-bitcoin-mining-congo-virunga-national-park
- 113 Frank Corva. "Mining Bitcoin In The Congo And Beyond: The Journey Of BigBlock Datacenter's Sébastien Gouspillou". *Bitcoin Magazine*. January 15, 2025. https://bitcoinmagazine.com/business/mining-bitcoin-in-the-congo-and-beyond-the-journey-of-bigblock-datacenters-sebastien-gouspillou
- ¹¹⁴ World Economic Forum. *This chocolate factory is powered by a net-zero bitcoin mine*. March 6, 2024. https://www.weforum.org/videos/bitcoin-mine-power
- ¹¹⁵ Learning Bitcoin Foundation. *Learning Bitcoin 2025 Vancouver*: https://www.learningbitcoin.ca/2025-gallery
- ¹¹⁶ "Panel discusses using Bitcoin mining to heat Kits Pool". *Global News*. August 18, 2025. https://globalnews.ca/video/11339929/panel-discusses-using-bitcoin-mining-to-heat-kits-pool

- ¹¹⁷ Natalie Brunell. Will Vancouver Adopt Bitcoin? Mayor Ken Sim Says Asset Has Been "De-Risked". https://www.youtube.com/watch?v=kxYggQVcG2E
- ¹¹⁸ Mike Howell. "Vancouver mayor's bitcoin push a 'hill that I'm willing to die on'". *Business Intelligence for B.C.* April 11, 2025. https://www.biv.com/news/economy-law-politics/vancouver-mayors-push-to-become-bitcoin-friendly-city-is-hill-that-im-willing-to-die-on-ken-sim-cyrptocurrency-10512187
- ¹¹⁹ Albert Morgan. "South African Bitcoin Ekasi Project Transforms Township Economy". *Bitgen*. March 29, 2025. https://www.bitget.com/news/detail/12560604673244
- ¹²⁰ Destiny Smart. "Bitcoin Empowering South Africans: Bitcoin Ekasi Drives Bitcoin Adoption". *Blink*. November 25, 2024. https://www.blink.sv/blog/bitcoin-empowering-south-africans-bitcoin-ekasi-drives-bitcoin-adoption
- ¹²¹ Frederick Munawa. "South African Non-Profit Bitcoin Ekasi Opens Education Center" *CoinDesk* October 11, 2022. https://finance.yahoo.com/news/south-african-non-profit-bitcoin-200747128.html
- ¹²² Frank Corva. "South African Bitcoin Circular Economy Project Deepens Community Ties". *Forbes*. March 29, 2025. https://www.forbes.com/sites/frankcorva/2025/03/29/south-african-bitcoin-circular-economy-project-deepens-community-ties
- ¹²³ Jaclyn Goliath. "Empowering Financial Inclusion: The Rise of Local Bitcoin Economic Communities in South Africa". *Bluetrino*. August 9, 2023. https://www.bluetrino.com/blog/empowering-financial-inclusion-the-rise-of-local-bitcoin
- 124 Graham Templeton. "A sustainable solution for bitcoin mining in B.C.'s rural communities Iris Energy's new bitcoin mining data centre is powered by clean, renewable energy, supports local First Nations and creates long-term jobs". Vancouver Sun. August 10, 2021. https://vancouversun.com/sponsored/news-sponsored/a-sustainable-solution-for-bitcoin-mining-in-b-c-s-rural-communities#:~:text=s%20rural%20communities-,A%20sustainable%20solution%20for%20bitcoin%20mining%20in%20B.C.'s%20rural,identify%20training%20an
- ¹²⁵ Bitcoin Explorers. We survived TEN DAYS without our bank accounts in Costa Rica! January 5, 2023. https://www.youtube.com/watch?v=jLalk0aJDb0&t=5s
- ¹²⁶ MacKenzie Sigalos. "How a Jack Dorsey-backed bitcoin miner uses a volcano in Kenya to turn on the lights in rural homes". *CNBC*. April 20, 2024. https://www.cnbc.com/2024/04/20/bitcoin-miner-gridless-backed-by-block-builds-site-at-kenya-volcano.html
- ¹²⁷ Frank Corva. "Gridless Is Mining Bitcoin While Fostering Human Flourishing In Africa". *Bitcoin Magazine*. December 17, 2024. https://bitcoinmagazine.com/business/gridless-is-mining-bitcoin-while-fostering-human-flourishing-in-africa
- ¹²⁸ Ciaran Ryan. "Bitcoin miners are solving Africa's huge power deficit". *The Writer's Room*. July 24, 2025. https://www.writersroom.co.za/bitcoin-miners-are-solving-africas-huge-power-deficit
- ¹²⁹ Gridless Compute. A Blueprint for Bitcoin Mining and Energy in Africa. https://gridlesscompute.com/2023/05/17/a-blueprint-for-bitcoin-mining-and-energy-in-africa
- ¹³⁰ Azteco. Stories. https://azte.co/learn/stories
- 131 BTC Map: https://btcmap.org

d%20job%20opportunities.

¹³² Bitcoin Travel: https://bitcointravel.com

¹³³ AirBTC: https://airbtc.online

¹³⁴ Federation of Bitcoin Circular Economies: https://fbce.io

¹³⁵ Bitcoin Coalition of Canada. Leveraging the Economic, Social and Environmental Benefits of Bitcoin for Canada and the World: Federal Policy Recommendations. Op cite.