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## RESEARCH REPORT

Microcompliance

The Layered Conditioning of Human Behaviour in AI-Mediated Systems

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## Executive Summary

Microcompliance describes the gradual shaping of human behaviour through small, repeated, low-friction acts of agreement, disclosure, attention, conformity, or routine response. It is not one large act of obedience. It is the accumulation of ordinary actions: clicking accept, following a recommended path, leaving a default unchanged, responding to an alert, accepting a small disclosure, completing a prompt, or avoiding a more difficult refusal pathway. Over time, these small acts can train people to behave inside the logic of a system without feeling directly coerced.

This report argues that microcompliance is an emerging cognitive-security concern because modern digital and institutional systems increasingly shape human judgment through defaults, prompts, notifications, gamification, rankings, algorithmic personalization, social proof, friction, and automated workflow demands. These mechanisms often operate below the threshold of conscious resistance. They do not remove choice in a formal sense; instead, they alter which choices feel easiest, fastest, safest, most normal, or least costly.

The concept is broader than dark patterns, nudging, social engineering, or propaganda. Dark patterns usually refer to manipulative interface tactics such as hidden opt-outs, hard-to-cancel subscriptions, pre-checked boxes, or misleading visual design. Nudging refers to the use of choice architecture to steer decisions while preserving formal options. Social engineering exploits trust, urgency, emotion, or authority to produce a harmful action. Propaganda attempts to influence belief and opinion at scale. Microcompliance connects these fields by focusing on repeated low-level behavioural conditioning across daily life, workplaces, public services, consumer platforms, AI assistants, and civic information environments.

The core public-interest concern is that microcompliance can reduce meaningful autonomy while preserving the appearance of consent. In legal or administrative terms, the user may have clicked, agreed, acknowledged, or continued. In cognitive-security terms, the deeper question is whether the person had a fair opportunity to notice, understand, refuse, deliberate, or choose otherwise. If the environment is designed so that consent is easier than comprehension and

compliance is easier than refusal, then autonomy is weakened even where formal choice remains available.

This standardized report uses a six-layer human-systems model: the human cognitive layer, the interface design layer, the algorithmic layer, the institutional layer, the threat actor layer, and the governance layer. It also introduces Compliance Drift: the gradual movement of individuals, organizations, or communities away from active judgment and toward automatic alignment with system cues. Compliance drift explains how repeated small actions can normalize weak consent, rushed decisions, unread acknowledgements, algorithmic dependence, and completion-based accountability without genuine understanding.

For Canada, microcompliance should be treated as a public-interest governance issue. Existing privacy, consumer protection, accessibility, cybersecurity, labour, platform, and AI-governance frameworks each address part of the problem, but none fully captures the shared pattern: the shaping of human judgment through repeated low-friction behavioural conditioning. A Canadian response should combine privacy-by-default design, dark-pattern enforcement, algorithmic transparency, interface fairness, digital literacy, independent auditing, accessible public services, and human-in-the-loop governance.

**Key finding:** You may still be making choices, but the environment may be deciding which choices feel easiest, fastest, safest, or most normal.

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## Definition and Scope

Microcompliance is the repeated, low-friction alignment of human behaviour with system-designed cues, prompts, defaults, incentives, pressures, or social expectations. It is a pattern of small behavioural adjustments that appear minor in isolation but may become significant when repeated across time, platforms, institutions, and social contexts.

The term helps describe a growing condition of digital life. People are constantly asked to accept, acknowledge, update, confirm, verify, share, subscribe, continue, complete, rate, review,

approve, or proceed. Each request may be defensible on its own. A government portal needs identity verification. A workplace needs a policy acknowledgement. A platform needs privacy settings. A bank needs fraud controls. The problem begins when the total environment trains people to move quickly through small compliance acts without meaningful attention.

Microcompliance should not be understood as a claim that people lack agency. The stronger claim is that agency operates inside structured environments. Interfaces, defaults, institutional procedures, and personalized recommendation systems shape the conditions under which people exercise judgment. They influence what appears first, what feels recommended, what requires effort, what appears socially normal, and what consequences are attached to refusal.

This report includes digital interfaces, AI-mediated systems, consumer platforms, workplace systems, public-service portals, cybersecurity and fraud contexts, and civic information environments. It does not claim that all influence is harmful, that convenience is inherently manipulative, or that users are powerless. The focus is narrower: when repeated low-friction design patterns weaken meaningful notice, comprehension, refusal, reversal, or independent judgment.

**Table 1. Microcompliance Compared with Related Concepts**

<b>Concept</b>	<b>Primary meaning</b>	<b>How microcompliance differs</b>
Nudging	Steering choices through choice architecture while preserving formal options.	Microcompliance focuses on repeated behavioural conditioning over time and across systems.
Dark patterns	Manipulative interface design that steers, obscures, or impairs user choice.	Dark patterns are one mechanism; microcompliance also includes workplaces, public services, AI systems, and social norms.
Social engineering	Manipulation of human judgment through trust, urgency, deception, or authority.	Microcompliance explains the behavioural groove that makes routine-looking requests effective.
Propaganda	Organized communication intended to influence public opinion or belief.	Microcompliance operates at the small-action level, often before full belief formation.
Compliance	Following instructions, rules, or expectations.	Microcompliance is often habitual, pre-reflective, low-friction, and system-induced.

Concept	Primary meaning	How microcompliance differs
Behavioural design	Designing environments to influence action.	Microcompliance asks when design becomes autonomy erosion.

## Research Questions and Method

### Research Questions

Focus area	Research question
Definition and boundaries	What is microcompliance, and how can it be distinguished from ordinary compliance, nudging, dark patterns, propaganda, and social engineering?
Human-systems influence	How do digital, institutional, and AI-mediated environments shape attention, consent, decision-making, and behavioural autonomy through repeated low-friction actions?
Public-interest risk	What public-interest risks emerge when repeated small acts of agreement are treated as evidence of valid consent, understanding, or accountability?
Canadian governance response	How should Canadian governance frameworks address microcompliance across privacy, consumer protection, cybersecurity, accessibility, labour, public-service design, and AI governance?
Practical safeguards	What practical safeguards can preserve meaningful choice, refusal, reversibility, and human judgment in high-friction or high-impact systems?

### Method and Source Base

This report uses analytic synthesis rather than primary empirical research. It integrates concepts from behavioural economics, dark-pattern research, privacy and consumer-protection guidance, cybersecurity awareness, social-engineering literature, public-sector digital service design, and emerging AI-governance discussion.

The source base includes public regulatory materials from Canadian and international bodies, academic concepts on choice architecture and incremental compliance, legal and policy commentary on deceptive design, and cybersecurity explanations of human-targeted manipulation. The report treats microcompliance as a public-interest interpretive framework rather than a settled legal term.

The analysis avoids unsupported causal claims. It does not assert that a given platform or system directly caused a specific psychological outcome unless evidence is available. Instead, it

identifies observable mechanisms, governance gaps, and practical questions for further research.

### Limitations and Uncertainty

Limitation / uncertainty	Implication for interpretation
Emerging concept	Microcompliance requires further empirical validation before being treated as a settled legal or scientific term.
Context sensitivity	Consent, manipulation, persuasion, convenience, and legitimate public-interest nudging must be distinguished carefully by context.
Ambiguous metrics	High compliance rates may indicate user preference, but they may also indicate friction asymmetry or design pressure; independent auditing is required.
Rapid technological change	AI-mediated influence is changing quickly, so terminology, regulatory pathways, and evidence standards should be revisited as systems evolve.

## Conceptual Framework

Cognitive security is concerned with the conditions under which individuals and communities perceive, interpret, decide, and act. Microcompliance is relevant because it targets the pre-decisional environment: the cues, prompts, defaults, pressures, and social signals that shape behaviour before a person fully reflects.

Traditional security frameworks often separate technical vulnerabilities from human behaviour. Cybersecurity treats phishing as a human-targeting attack. Privacy law treats consent as an information and control problem. Consumer law treats deceptive design as an unfair market practice. Labour policy treats digital dashboards and automated performance systems as workplace issues. AI governance treats automated recommendations and decision-support systems as algorithmic accountability issues. Microcompliance cuts across these fields because the common issue is repeated shaping of human judgment through low-friction cues.

A cognitive-security lens asks whether a person was meaningfully able to notice the influence, understand the choice, compare alternatives, refuse without penalty, and reverse the decision later. A consent banner may technically present options, yet still bias the user if the acceptance path is bright, immediate, and simple while refusal is hidden, delayed, or guilt-framed. A workplace training platform may technically record acknowledgement, yet still fail if employees click through without comprehension because completion is rewarded more than judgment.

The issue is not whether all influence is bad. Human societies rely on legitimate persuasion, reminders, guidance, training, and public-interest nudges. The issue is whether influence remains transparent, proportionate, reversible, contestable, and aligned with the user's interests. Microcompliance becomes harmful when the system's goal overrides the person's capacity to understand or refuse.

## Six-Layer Human-Systems Model

Layer	Mechanism	Common indicators
Human cognitive	Fatigue, overload, urgency, ambiguity, social pressure.	Fast clicking, default acceptance, reduced reading, avoidance of harder option.
Interface design	Visual hierarchy, button asymmetry, hidden refusal, forced continuity.	Accept path easier than refuse path; cancellation or deletion hard to find.
Algorithmic	Personalized ranking, recommendations, notifications, feedback loops.	Repeated tailored prompts; increased dependence on recommended pathways.
Institutional	Forms, dashboards, acknowledgements, mandatory modules, workflow nudges.	Completion measured more than comprehension; routine policy clicking.
Threat actor	Imitation of legitimate prompts and authority cues.	Phishing, fraud, fake verification, incremental recruitment, disinformation funnels.
Governance	Law, standards, auditing, accessibility, accountability.	Presence or absence of meaningful consent, transparency, easy refusal, and redress.

## Compliance Drift

Compliance Drift is the gradual movement of a person, group, or institution away from active judgment and toward automatic alignment with system cues. It occurs when repeated small acts of routine agreement become normalized. The user stops reading consent notices. The employee signs acknowledgements without comprehension. The citizen follows portal instructions without understanding rights or alternatives. The organization measures completion instead of understanding.

Compliance drift matters because it converts behaviour into evidence. A completed module becomes proof of training. A checked box becomes proof of consent. A clicked acknowledgement becomes proof of awareness. Yet the cognitive reality may be different: the person may have acted under pressure, fatigue, confusion, interface asymmetry, or expectation. The appearance of accountability can exist without genuine judgment.

## Evidence and Case Studies

Case / environment	Microcompliance mechanism and concern
Daily digital life	Notifications, app updates, banners, messages, and algorithmically ordered information can train attention to behave responsively rather than reflectively.
Consumer platforms	Scarcity cues, countdown timers, recommended additions, one-click purchases, automatic renewals, pre-checked options, and hard-to-cancel subscriptions can shape purchases through small compliance decisions.
Cookie banners and privacy consent	Consent interfaces may present fast acceptance paths and slower refusal paths. Consent is meaningful only when the user can understand the choice and refuse without undue friction.
Workplace systems	Repeated prompts for training, policy acknowledgements, dashboards, collaboration tools, and workflow nudges can reward speed and completion over understanding.
Public-sector systems and civic access	Digital service delivery can exclude people facing low digital literacy, language barriers, disabilities, trauma, poverty, or limited access to technology.
AI assistants and decision support	Fluent, confident, low-friction AI suggestions may condition users to accept machine-generated framing before forming their own interpretation.
Social media and recommender systems	Feeds convert clicks, pauses, watches, likes, shares, comments, and searches into feedback for future ranking until the feed becomes both environment and habit.

### Measurement Indicators

#### Indicator

Consent-rate differential

#### What it can reveal

Whether acceptance changes sharply when accept and reject options are equally prominent.

Refusal friction

The number of steps, screens, emotional prompts, or delays required to decline.

Reversal difficulty

Whether a user can easily undo consent, cancel a subscription, delete data, or change settings.

Indicator	What it can reveal
Comprehension score	Whether the person understood what they agreed to, not only whether they clicked.
Accessibility burden	Whether the system imposes disproportionate effort on people with disabilities, language barriers, low digital literacy, or limited access.
Notification frequency	Whether attention is repeatedly interrupted before intentional judgment can form.
Dark-pattern prevalence	Whether deceptive or obstructive interface patterns appear across a service or sector.

## Threat / Risk Analysis

Risk area	Mechanism and public-interest concern
Threat-actor imitation	Attackers can imitate routine prompts, urgent messages, verification steps, and authority cues. Phishing often copies the language and visual logic of legitimate systems.
Incremental fraud	Financial, romance, investment, and fake-support scams can escalate through small steps such as answering questions, clicking links, joining groups, downloading apps, or making small deposits.
Recruitment and disinformation funnels	Watching, liking, sharing, joining, commenting, or attending can strengthen identity, commitment, and algorithmic exposure through a chain of low-risk actions.
Workplace manipulation	Dashboards, rankings, automated nudges, and constant policy prompts can normalize self-censorship, acceleration, over-disclosure, or acceptance of surveillance.
Crisis and emergency conditions	During emergencies, urgent prompts and emotionally charged instructions can accelerate misinformation, fraud, panic buying, or unsafe behaviour.

### Risk Pattern Summary

Risk pattern	Public-interest concern	Safeguard direction
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<b>Risk pattern</b>	<b>Public-interest concern</b>	<b>Safeguard direction</b>
Weak consent	Agreement is recorded without meaningful understanding.	Equal refusal paths, plain-language explanation, easy reversal.
Judgment compression	People are pressured to act quickly rather than reflect.	Fewer prompts, comprehension checks, pause points for high-impact decisions.
Threat-actor imitation	Attackers copy legitimate prompt routines.	Redesign legitimate systems to reduce reflexive clicking and urgent verification habits.
Accessibility exclusion	Digital friction blocks access to services or rights.	Human support, non-digital alternatives, accessibility testing.
Algorithmic dependence	Users adopt system framing before independent interpretation.	Transparent recommendations, personalization controls, human-in-the-loop review.

## Governance and Law

Canada has several relevant governance pathways, but they are fragmented. Privacy law addresses consent and personal information. Consumer protection addresses deceptive commercial practices. Competition law addresses misleading representations and market conduct. Accessibility frameworks address usability and inclusion. Labour law addresses workplace conditions and surveillance. Cybersecurity addresses phishing and human-targeted attacks. AI governance addresses automated systems and accountability. Microcompliance requires coordination across these domains.

Canadian public agencies already recognize dark patterns as a problem. Innovation, Science and Economic Development Canada's Office of Consumer Affairs describes dark patterns as web or app design that can influence decision-making and may cause users to give up time, money, privacy, or personal information. The Office of the Privacy Commissioner of Canada's 2024 sweep examined deceptive design patterns and reported indicators across nearly all tested websites and apps. These findings support a broader cognitive-security concern: manipulative interface design is not rare; it is part of the ordinary digital environment.

AI governance should address not only biased or harmful automated decisions but also automated influence: recommendations, ranking, personalized prompts, agentic suggestions, and AI-mediated consent flows. As AI assistants become conversational and adaptive, cognitive-

security concerns shift from visible buttons to fluent framing, implied authority, and low-friction delegation.

Public services deserve special attention. Citizens do not always have a realistic alternative to using government portals. This creates a higher duty to ensure fairness, accessibility, plain language, easy reversal, meaningful human support, and non-punitive refusal pathways. Digital government should not convert administrative access into a test of microcompliance capacity.

### Governance Gap Map

Domain	Existing focus	Microcompliance gap
Privacy	Consent and personal information.	Consent can be technically recorded while interface design undermines real understanding or refusal.
Consumer protection	False, misleading, unfair, or deceptive market practices.	Subtle friction and behavioural conditioning may not be treated as a core autonomy issue.
Cybersecurity	Phishing, fraud, human-targeted attacks.	Training may blame users without addressing systems that condition reflexive clicking.
Accessibility	Inclusive access and usability.	Digital service friction can become exclusion when microcompliance capacity is assumed.
Labour and workplace	Employment conditions, surveillance, performance tools.	Dashboards and prompts may compress judgment and normalize over-compliance.
AI governance	Automated decisions, transparency, risk management.	Automated influence, recommender prompts, and AI-mediated consent need explicit attention.

## Recommendations for Canada

The recommendations below standardize the original RR-002 action plan into the master research report format. Priorities should begin with awareness, guidance, and auditing, then move toward enforceable standards in high-risk contexts.

Recommendation	Lead actors	Timeline	Complexity
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<b>Recommendation</b>	<b>Lead actors</b>	<b>Timeline</b>	<b>Complexity</b>
Develop a Canadian microcompliance research stream with case studies, public briefs, and sector-specific analysis.	COGSEC Canada, universities, civil society	Short term	Low to medium
Strengthen deceptive-design enforcement and clarify that manipulative or obstructive design can undermine meaningful consent.	OPC, Competition Bureau, consumer agencies	Short term	Medium
Create interface fairness standards for equal prominence of accept/reject options, easy reversal, plain language, accessible design, and disclosure of personalization.	CSA, regulators, UX associations	Medium term	Medium
Require influence impact assessments for high-impact digital systems, including AI assistants, recommender systems, public-service portals, employee-monitoring platforms, and consent-intensive systems.	Federal and provincial policymakers	Medium term	High

<b>Recommendation</b>	<b>Lead actors</b>	<b>Timeline</b>	<b>Complexity</b>
Audit public-sector digital services for accessibility burden, refusal friction, consent quality, and exclusion caused by digital friction.	Treasury Board, provinces, municipalities	Medium term	Medium
Integrate microcompliance into phishing, fraud, and social-engineering prevention by shifting from user blame to system redesign.	Cybersecurity agencies, employers, schools	Short term	Low
Establish independent monitoring of platform dark patterns, recommender systems, consent flows, cancellation pathways, and public-sector digital access barriers.	Regulators, researchers, civil society	Long term	High

## Implementation Timeline

<b>Phase</b>	<b>Time horizon</b>	<b>Implementation focus</b>	<b>Representative outputs</b>
Phase 1: Awareness and baseline research	Short term	Define microcompliance for Canadian audiences; document case studies; integrate concepts into cyber, privacy, and digital-literacy materials.	Public brief, glossary, initial case-study series, training insert.

<b>Phase</b>	<b>Time horizon</b>	<b>Implementation focus</b>	<b>Representative outputs</b>
Phase 2: Guidance and standards	Medium term	Develop interface fairness standards, refusal-ease criteria, accessibility checks, and consent-quality guidance for public and private systems.	Guidance notes, audit checklist, model consent screen, procurement language.
Phase 3: Institutional audits	Medium term	Review public-sector portals, workplace platforms, school systems, and high-impact digital services for microcompliance burden.	Audit reports, corrective action plans, plain-language redesign.
Phase 4: Enforceable governance	Long term	Move from voluntary guidance to enforceable expectations in high-risk contexts; build independent monitoring capacity.	Regulatory standards, audit requirements, redress mechanisms, annual monitoring report.
Phase 5: AI-mediated influence safeguards	Long term	Adapt governance to conversational agents, adaptive prompting, recommender systems, and automated decision-support tools.	Influence impact assessments, AI assistant disclosure standards, human-in-the-loop safeguards.

Implementation should remain proportionate. Low-risk convenience features should not be over-regulated, but high-impact systems that affect rights, access, employment, privacy, safety, or public participation should be expected to preserve meaningful notice, refusal, reversal, and human judgment.

## Research Gaps and Next Steps

Microcompliance is still under-theorized. More research is needed to measure cumulative effects over time, identify vulnerable populations, compare sector-specific risks, and distinguish legitimate public-interest nudges from manipulative conditioning. Research should also examine how AI assistants change consent, trust, and decision delegation.

Future research should include qualitative interviews, interface audits, controlled experiments, public-sector accessibility testing, workplace case studies, and longitudinal surveys. It should also examine the relationship between microcompliance, cognitive liberty, social engineering, misinformation, and AI-mediated decision support.

Cognitive Security Canada can contribute by building a microcompliance observatory: a public-interest research stream that documents patterns, publishes case studies, creates awareness tools, and supports policy dialogue. The observatory could track deceptive design, algorithmic personalization, workplace compliance systems, digital public services, and threat-actor imitation of legitimate prompts.

### Priority Research Questions

Research focus	Priority question
Measurement	How can cumulative microcompliance be measured across platforms, workplaces, and public services?
Equity and vulnerability	Which populations face disproportionate microcompliance burden due to disability, language, trauma, age, income, or limited digital access?
Normative boundary	What distinguishes acceptable public-interest nudging from manipulative conditioning?
AI-mediated delegation	How do AI assistants change trust, delegation, consent, and independent interpretation?
Interface standards	Which interface standards most effectively preserve meaningful refusal and reversal without creating unnecessary service friction?

## Conclusion

Microcompliance is not just about people clicking buttons. It is about how modern systems quietly train the conditions under which people notice, decide, agree, refuse, and comply. It describes a shift from explicit instruction to environmental shaping, from overt coercion to friction asymmetry, and from informed consent to routinized agreement.

The concept is important because it reveals how autonomy can be weakened while formal choice remains intact. A person may click accept, complete a module, follow a recommendation, or continue through a workflow, yet still have been guided by fatigue, urgency,

hidden refusal, social pressure, or algorithmic personalization. The core question is whether the person had a meaningful chance to understand and choose otherwise.

For Canada, microcompliance offers a useful bridge between cognitive security, privacy, consumer protection, cybersecurity, AI governance, workplace rights, accessibility, and democratic resilience. Protecting cognitive autonomy requires more than fighting misinformation. It requires designing systems that preserve judgment in small moments.

The public-facing lesson is simple: you may still be making choices, but the environment may be deciding which choices feel easiest, fastest, safest, or most normal. Cognitive security begins when people, institutions, and policymakers learn to see that environment clearly.

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