



COGNITIVE DEPENDENCY

An Integrated Framework for Understanding Information Pollution, Psychological Violence and Cognitive Sovereignty

Core Thesis

The central challenge of the 21st century in EU and beyond is no longer merely political, economic or technological dependence.

It is **cognitive dependency** – the gradual transfer of perception, judgment and decision-making from autonomous individuals and societies to external systems of influence.

Cognitive sovereignty is not a state of complete independence from influence. Such a state does not exist.

It is the continuous effort to preserve independent judgment while navigating competing narratives, interests and uncertainties.

The art of life lies in maintaining equilibrium between doubt and determination.

Cognitive sovereignty is the individual and societal expression of that equilibrium.

PART 0 – PURPOSE AND CONNECTION TO LEGAL FRAMEWORK

0. From Concept to Legal Protection: The Purpose of This Framework

This document provides the conceptual foundation of the phenomenon of cognitive dependency. It represents the base for the strategic analysis of the EU presented in the book **Good Morning, Europa** (Hladnik, 2025), and for the legal analysis presented in the accompanying paper **Legal Regulation of Psychological Violence**.

While the legal paper examines how European law recognizes and regulates psychological violence, this document explains:

- What cognitive dependency is and how it operates,
- Who produces it and through which mechanisms,
- What consequences it produces at individual, societal, democratic, strategic and economic levels,
- How individuals and societies can move from dependency toward cognitive sovereignty.

All three documents are designed to be read together. This framework identifies the phenomena; the legal paper identifies the regulatory responses and gaps; the book provides the empirical diagnosis and case studies. Together, they form a complete analysis of cognitive security in contemporary democracies.

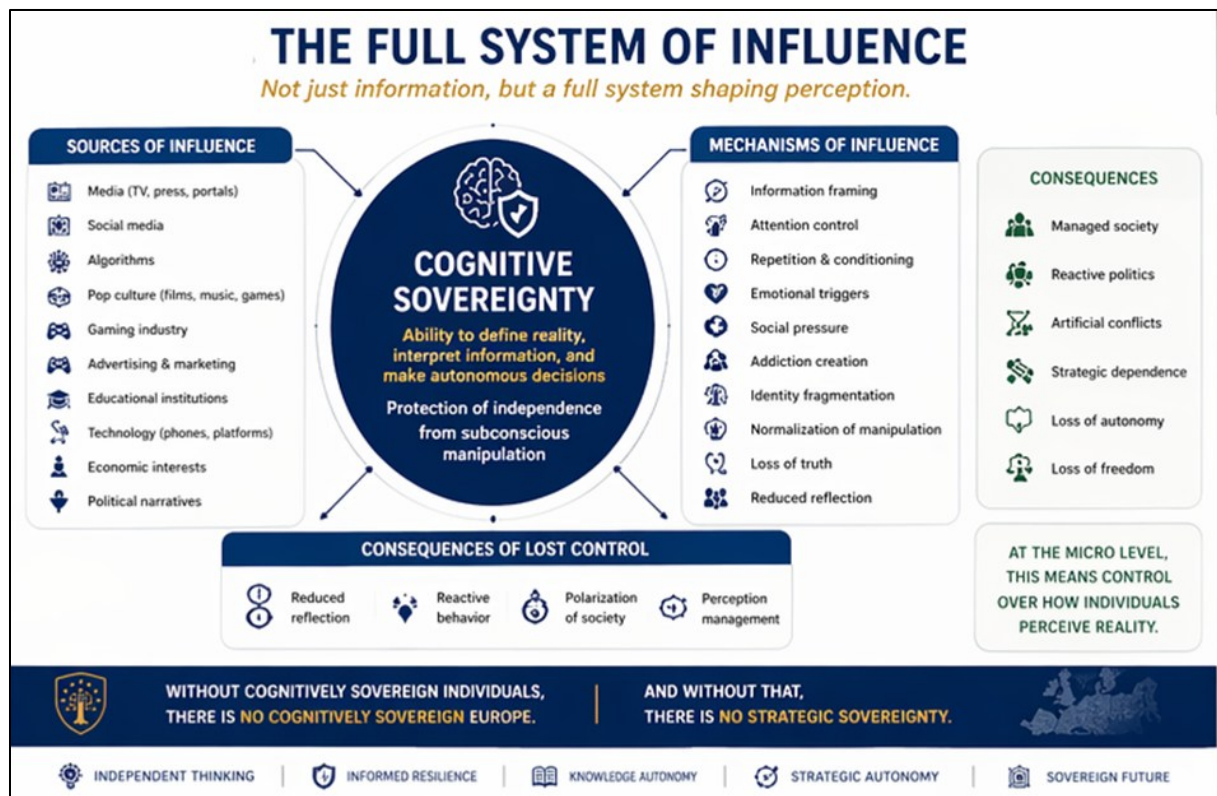


Relationship to *Good Morning, Europa* (Hladnik, 2025):

Document	Purpose	Content
<i>Good Morning, Europa</i>	Diagnosis and case studies	Political, geopolitical and civilizational consequences; real-world examples
<i>Cognitive Dependency</i> (this document)	Conceptual and regulatory framework	Mechanisms, actors, consequences, protective responses, regulatory model
<i>Legal Regulation of Psychological Violence</i>	Legal analysis	EU legal instruments, comparative analysis, regulatory gaps

This document serves as the ****bridge**** between the empirical diagnosis (book) and the legal-regulatory response (legal paper).

Figure 1: The Full System of Influence



Caption: Cognitive dependency emerges from the interaction of multiple sources, mechanisms and consequences. Cognitive sovereignty is the capacity to maintain autonomous judgment despite this system.



PART I – UNDERSTANDING COGNITIVE DEPENDENCY

1. What Is Cognitive Dependency?

Definition

Cognitive dependency is a **persistent condition** in which beliefs, perceptions, preferences and decisions are predominantly shaped by external systems of influence rather than by autonomous evaluation and independent judgment.

Unlike physical dependency (e.g., substance addiction), cognitive dependency operates through information, narrative and emotional channels. It does not require chemical intervention. It requires only persistent exposure to systematically structured influence.

Types of Cognitive Dependency

Type	Definition	Example
Individual	Personal reliance on external sources for judgment	Trusting an AI assistant for all decisions
Collective	Shared dependency within a group or community	Echo chamber, ideological tribe
Political	Reliance on political authority for interpretation of events	State-controlled media as sole source
Ideological	Reliance on a fixed set of beliefs that reject alternatives	Dogmatic adherence without examination
Media	Single-source news consumption without verification	Only watching one channel
Technological	Inability to function without specific digital tools	Smartphone separation anxiety
Commercial	Shaped by advertising and behavioural targeting	Brand loyalty based on manipulation, not quality
Cultural	Acceptance of foreign cultural frameworks as universal	Adopting another nation's values as one's own
Educational	Dependence on institutional authority for knowledge	Reproducing without questioning
Epistemic	Reliance on external authorities for determining what is true, valid or legitimate without independent evaluation	Expert dependency, institutional dependency, scientific dependency, AI-generated knowledge dependency

1.1 Epistemic Dependency (Detailed)

Epistemic dependency is the reliance on external authorities – experts, institutions, scientific bodies, AI systems – for determining what is true, valid or legitimate, without independent evaluation.



Subtype	Description	Example
Expert dependency	Accepting claims solely because an expert said so	"Professor X said it, so it must be true"
Institutional dependency	Trusting institutional authority without verification	"The WHO/EC/UN says this, so I believe it"
Scientific dependency	Citing studies without reading or understanding them	"Studies show..." without examining methodology
AI-generated knowledge dependency	Treating AI output as authoritative truth	Copying ChatGPT answers without verification

Connection to legal framework: Epistemic dependency is not addressed by existing law because it operates through authority, not coercion. It is a key regulatory blind spot identified in the legal paper (section 5.5 – Cognitive Dependency as a Regulatory Blind Spot).

Key authors: Tripathi & Saxena (2025 – epistemic colonization), Brcic (2025 – memory lock-in), Klein (2025 – sovereignty trap).

1.2 The Cognitive Dependency Vulnerability Scale

Not all individuals or groups are equally vulnerable to cognitive dependency. Vulnerability depends on:

Factor	Low Vulnerability	High Vulnerability
Education	Critical thinking training	Rote memorization only
Information diversity	Access to multiple sources	Single source dependency
Social support	Strong, diverse networks	Isolation, echo chambers
Cognitive load	Low stress, adequate time	High stress, information overload
Digital literacy	Understanding algorithms	Passive consumption
Age	Adults (25–60)	Children, elderly
Epistemic training	Philosophy of science, logic	No epistemology education

Understanding vulnerability is essential for designing proportionate regulatory responses and targeted educational interventions.



Figure 2: The Cognitive Dependency Framework



2. Types of Cognitive Dependency (Detailed)

Type	Mechanisms	Consequences
Political	State-controlled media, patriotic narratives, leader worship	Reduced political autonomy, manipulated voting
Ideological	Dogmatic frameworks, purity tests, exclusion of dissent	Inability to evaluate opposing views
Media	Agenda setting, framing, repetition	Beliefs shaped by editorial choices
Technological	Algorithmic feeds, notifications, lock-in effects	Inability to function without platform
Commercial	Behavioral targeting, persuasive design, brand loyalty	Purchasing against one's own interests
Cultural	Cultural diplomacy, educational exchanges, media exports	Adoption of foreign values as universal
Educational	Standardized curricula, authority-based teaching	Reproducing frameworks without questioning
Epistemic	Authority reliance, lack of verification methods	Accepting claims without evaluation

Figure 3: Types of Cognitive Dependency Map



3. The Cognitive Dependency Cycle

Cognitive dependency is not a static state. It develops through a repeating cycle:

Stage	Description
Exposure	Initial contact with influence system (news, social media, advertising, education)
Repetition	Repeated exposure to similar messages, narratives, frames
Normalization	The message becomes familiar, then normal, then "common sense"
Identity attachment	The belief becomes part of self-concept; challenging it feels like personal attack
Dependency formation	Individual relies on the system for orientation, meaning, decision-making
Resistance to alternatives	Competing information is rejected without examination

Figure 4: The Cognitive Dependency Cycle

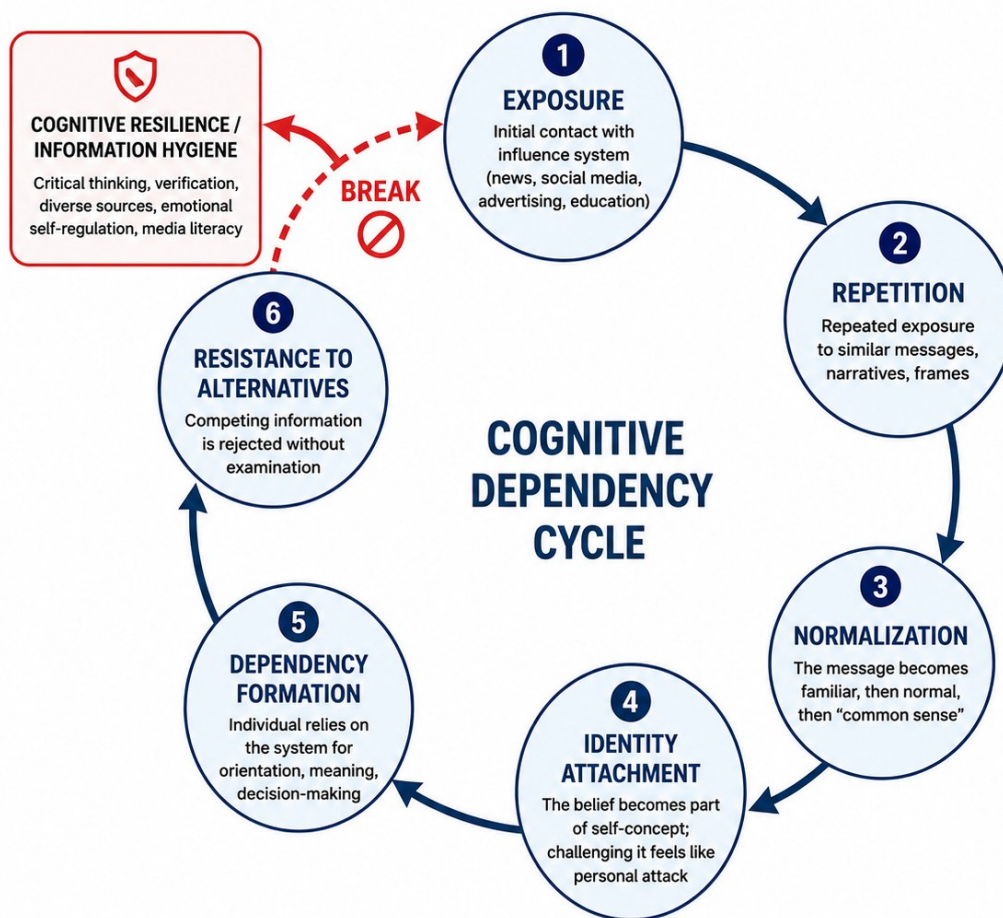


Figure 4: The Cognitive Dependency Cycle.

The cycle begins with exposure to an influence system. Through repetition, the message becomes normalized and attached to identity. Dependency forms, followed by resistance to alternatives. The cycle then repeats, each iteration deepening dependency. Breaking the cycle requires cognitive resilience and information hygiene.

4. Information Pollution

Definition

Information pollution is the contamination of the information environment with:

- **Misinformation** – false information without intent to harm
- **Disinformation** – false information with intent to deceive
- **Malinformation** – true information shared with intent to harm
- **Information overload** – excessive volume preventing processing
- **Information fragmentation** – isolated knowledge pools without synthesis



4.1 Types of Information Pollution

Type	Definition	Example
Misinformation	False information, no intent to harm	Unverified rumour shared in good faith
Disinformation	False information, intent to deceive	State-sponsored fake news
Malinformation	True information, intent to harm	Doxxing, leaked private communications
Information overload	Excessive volume preventing processing	24/7 news cycles, notification fatigue
Information fragmentation	Isolated pools without synthesis	Echo chambers, filter bubbles

4.2 The Information Pollution Lifecycle

Stage	Description
Production	Who creates the pollution? (state actors, commercial platforms, individuals)
Amplification	How does it spread? (algorithms, social sharing, media repetition)
Reception	Who is targeted? (general public, specific demographics, vulnerable groups)
Internalization	When does it become belief? (repetition, emotional resonance, identity fit)
Consequence	What follows? (behaviour change, democratic distortion, psychological harm)

4.3 Democratic Consequences of Information Pollution

Consequence	Description
Epistemic chaos	No shared factual basis for debate
Deliberative breakdown	Cannot deliberate when facts are contested
Trust erosion	Loss of trust in institutions, media, science
Polarization	Tribes form around competing information ecosystems



Figure 5: Information Pollution Map

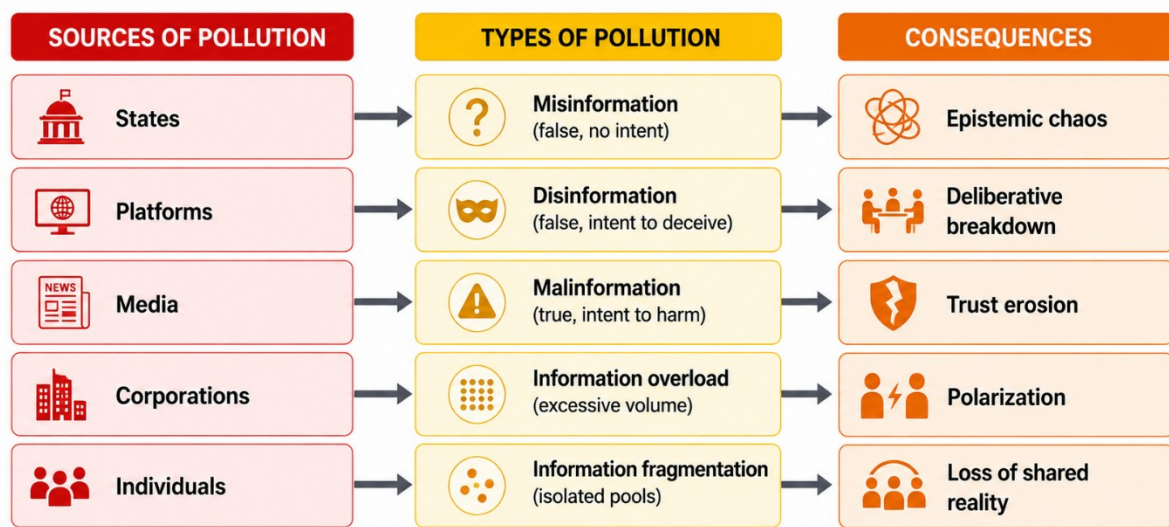


Figure 5: Information Pollution Map. Information pollution originates from five sources (states, platforms, media, corporations, individuals) and manifests as five types of pollution (misinformation, disinformation, malinformation, overload, fragmentation), leading to five democratic consequences (epistemic chaos, deliberative breakdown, trust erosion, polarization, loss of shared reality).

5. Psychological Violence

Definition

Psychological violence is the systematic use of communicative, behavioural, informational or environmental techniques that impair the ability of an individual or group to make free, informed and autonomous decisions, thereby violating psychological integrity, cognitive autonomy or human dignity, **with the intention of obtaining benefits for the perpetrator or a third party.**

Distinguishing Ethical Influence from Psychological Violence

Not every influence that reduces autonomy constitutes psychological violence. Democratic societies depend on legitimate forms of influence, including education, healthcare, parenting, public health campaigns, political persuasion and commercial advertising within legal boundaries.

Ethical influence is distinguished by two characteristics:

1. **Intent to benefit the target** (or society as a whole) – the primary purpose is the well-being, safety, or development of the person being influenced.
2. **Transparency** – the target is aware that they are being influenced and can, in principle, consent or reject.



Psychological violence, by contrast, is defined by:

1. **Intent to benefit the perpetrator or a third party** – the target's autonomy is reduced not for their own good but for the benefit of another.
2. **Opaqueness or deception** – the target is often unaware of the influence or cannot meaningfully consent.

Examples of legitimate influence (NOT psychological violence):

Context	Method	Intent	Why legitimate
Parenting	Limiting screen time	Protect child's development	Intent to benefit target
Education	Correcting false beliefs	Student's understanding	Intent to benefit target
Healthcare	Recommending treatment	Patient's health	Intent to benefit target
Public health	Vaccination campaign	Community immunity	Intent to benefit society
Political debate	Persuasive argument	Democratic competition	Transparent, reversible

Examples of psychological violence:

Context	Method	Intent	Why unlawful
Coercive control	Isolation, monitoring, gaslighting	Domination, control	Intent to benefit perpetrator
Dark patterns	Deceptive interface design	Profit extraction	Intent to benefit third party
Fear-based political manipulation	Threat amplification, us-versus-them	Electoral victory	Intent to benefit perpetrator
AI synthetic authority	Presenting AI as omniscient	User lock-in, data extraction	Intent to benefit third party

Levels of Psychological Violence

Level	Description	Example
Individual	Interpersonal abuse	Coercive control in relationships
Organizational	Workplace mobbing	Systematic humiliation, exclusion
Political	State-sponsored intimidation	Fear-based campaigns, stigmatization
Commercial	Manipulative marketing	Behavioural targeting, dark patterns
Societal	Systemic discrimination	Structural exclusion of groups



5.1 Coercive Control – The Most Pervasive Form

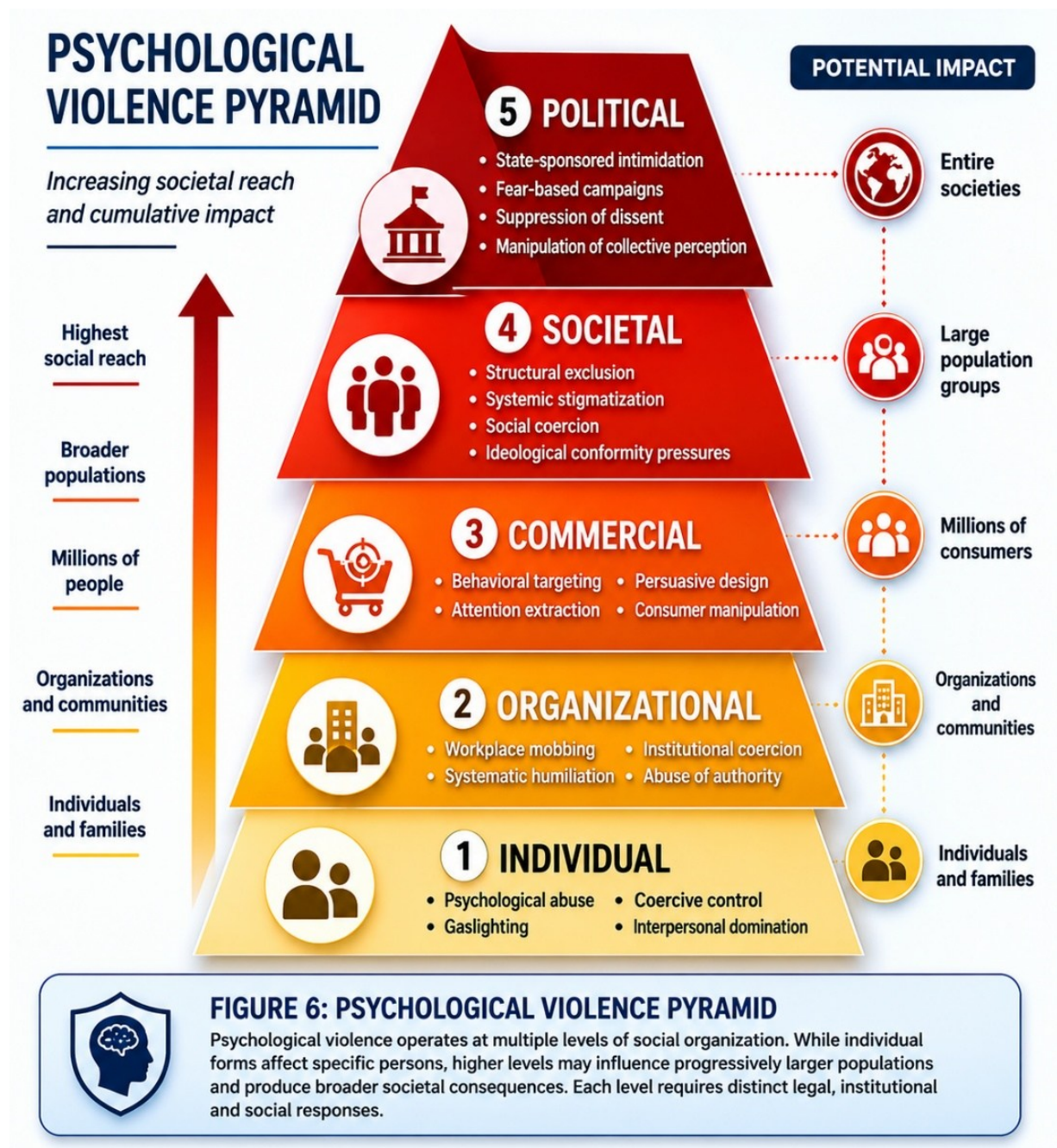
Coercive control is a strategic pattern of domination rather than isolated incidents of abuse. It operates through:

Mechanism	Description
Isolation	Cutting off access to friends, family, alternative information sources
Monitoring	Surveillance of communications, movements, beliefs
Gaslighting	Systematic denial of reality to undermine confidence in one's own judgment
Threats	Veiled or explicit threats of harm, abandonment, or exposure
Economic control	Restricting access to resources, creating dependency

Coercive control is relevant not only to interpersonal relationships but also to institutional and political contexts. When a political regime or commercial platform systematically isolates, monitors, gaslights, threatens and economically controls individuals or groups, it engages in coercive control at scale.

Connection to legal framework: Directive (EU) 2024/1385 explicitly recognizes coercive control as a form of violence, requiring Member States to criminalize it. This document extends that recognition from interpersonal to systemic contexts.

Figure 6: Psychological Violence Pyramid



6. Legitimate Influence vs Manipulation

Influence is not inherently harmful. Democratic societies depend on persuasion, education, advocacy and public debate.



The Influence Continuum

Stage	Description	Legitimacy
Information	Neutral facts, data, evidence	Fully legitimate
Education	Teaching with transparent authority	Legitimate
Persuasion	Reasoned argument, evidence-based	Legitimate
Advocacy	Partisan but transparent	Legitimate (with disclosure)
Propaganda	One-sided, emotionally charged, opaque	Questionable
Manipulation	Deceptive, exploitative, non-transparent	Illegitimate
Psychological violence	Systematic harm to autonomy	Unlawful

Key Distinction

	Legitimate Influence	Manipulation	Psychological Violence
Transparency	Transparent	Opaque	Opaque
Consent	Informed	Manipulated	Absent
Autonomy	Preserved	Reduced	Destroyed
Intent	Beneficial or neutral	Self-interested	Malicious or reckless

Figure 7: Influence Continuum



FIGURE 7: INFLUENCE CONTINUUM

Influence exists on a spectrum from legitimate (information, education, persuasion) to illegitimate (manipulation, psychological violence). The boundary between legitimate and illegitimate influence is defined by transparency, consent, preservation of autonomy, and reversibility.

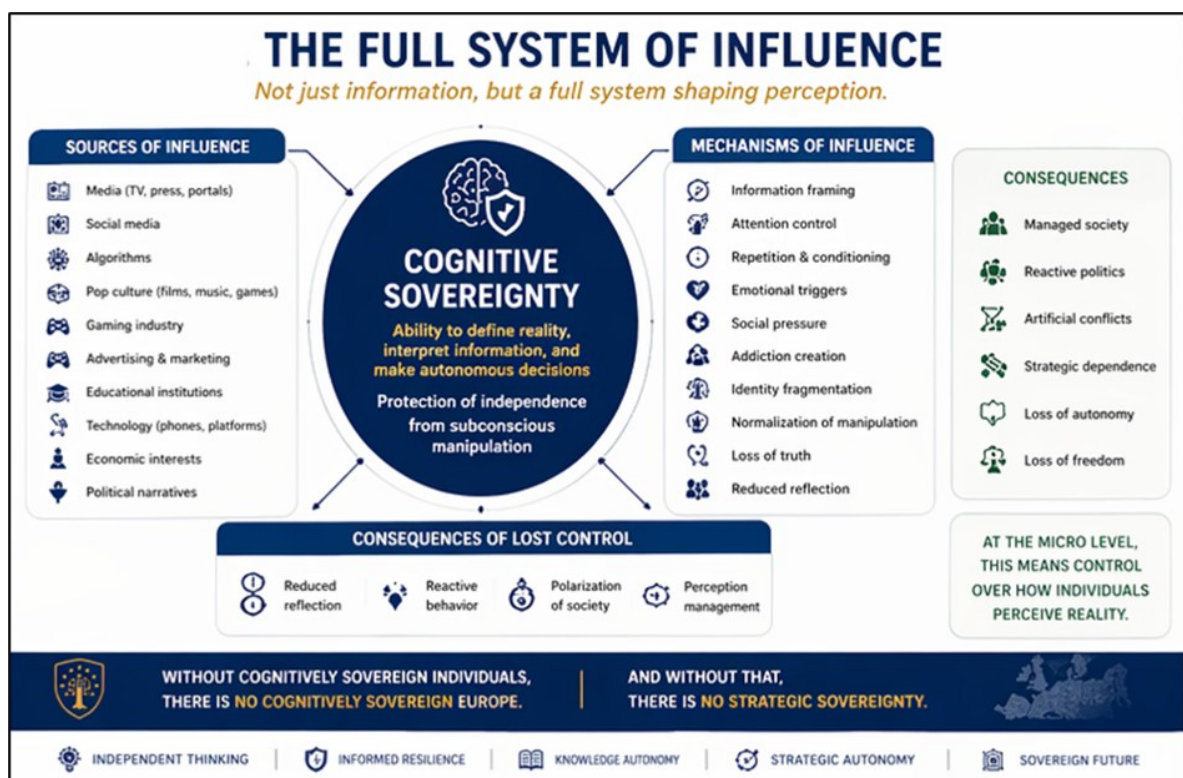


PART II – MECHANISMS OF COGNITIVE DEPENDENCY

7. The Full System of Influence

Stage	Description
Narrative construction	Creation of coherent story about reality
Belief formation	Internalization of narrative as true
Behavioral outcomes	Action based on internalized beliefs

Figure 8: The Full System of Influence



8. Conscious Mechanisms of Influence

Mechanism	Description
Agenda setting	Media tells you what to think about, not what to think
Framing	Presenting an issue from a particular perspective
Information selection	Choosing which facts to include or exclude
Repetition	Repeating a message until it feels true
Authority effects	Using credible (or seeming credible) sources
Social proof	"Everyone believes this"



9. Subconscious Mechanisms of Influence

Mechanism	Description
Fear	Threat-based persuasion (see 9.1 below)
Emotional triggers	Anger, hope, disgust, outrage
Identity formation	Beliefs tied to who you are
Tribal instincts	Us vs them
Dopamine systems	Variable rewards, notifications, likes
Behavioural conditioning	Rewards for desired behavior

9.1 Fear as the Primary Lock-in Mechanism

Fear is the most effective psychological mechanism for creating dependency. It operates through:

Mechanism	Description
Threat amplification	Magnifying potential dangers beyond reasonable probability
Us-versus-them framing	Creating existential threat from an out-group
Loss aversion	Focusing on what will be lost rather than gained
Uncertainty exploitation	Providing simple answers to complex threats

When fear is systematically deployed, individuals become dependent on the source that promises protection – whether that source is a political leader, a media outlet, a platform, or an ideology. Fear-induced dependency is particularly difficult to reverse because admitting that the threat was exaggerated requires admitting that one has been manipulated.

Connection to legal framework: Fear-based campaigns are documented in the legal paper (section 5.2 – Political and Ideological Manipulation). The DSA, AI Act and national laws do not directly address fear-based manipulation when deployed by political actors.

Context from Standard Eurobarometer 104 (Autumn 2025):

- 77% of EU citizens agree that Russia's invasion of Ukraine is a threat to the security of the European Union.
- 53% of EU citizens are satisfied with the EU's response to the invasion.
- Satisfaction with the EU's response to the invasion ranges from 77% in Portugal to 32% in Cyprus (Standard Eurobarometer 104, Autumn 2025).

Source: Standard Eurobarometer 104 – Autumn 2025.

Observation. Available survey data indicate substantial variation in threat perception and security attitudes across European societies. These differences cannot be explained solely by objective exposure or geographic proximity. Historical experience, political culture, media environments and collective narratives may all influence the perception of security threats and appropriate policy responses.



Figure 9: Information → Emotion → Belief → Behavior

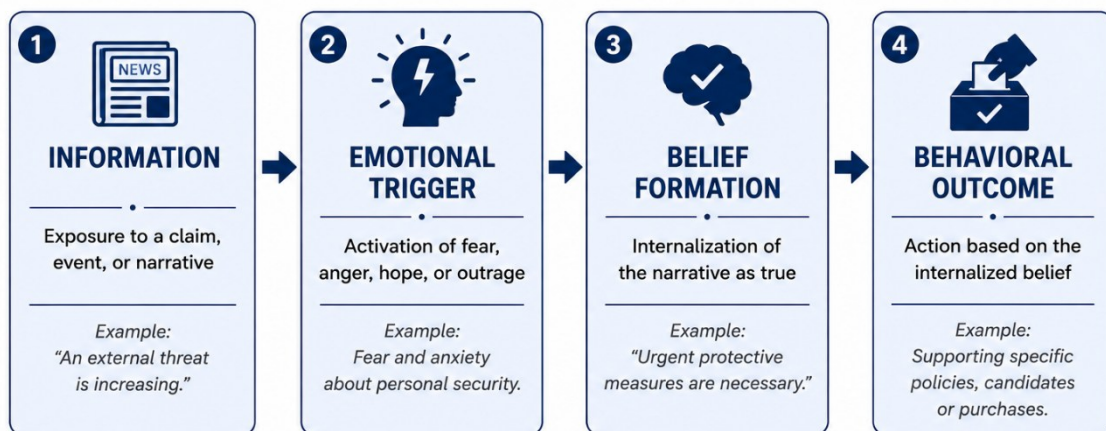


Figure 9: Information → Emotion → Belief → Behavior

The influence pathway from information to behavior operates through four stages. First, exposure to information (a claim, event, or narrative) triggers an emotional response (fear, anger, hope, outrage). This emotional activation facilitates belief formation, where the narrative is internalized as true. Finally, the belief translates into behavioral outcomes (voting, purchasing, sharing, protesting). This pathway is exploited by political campaigns, commercial advertising, disinformation operations, and algorithmic influence systems. Interrupting the pathway at any stage – through reflection, verification, or emotional regulation – is the goal of cognitive resilience.

i The pathway is illustrative and does not imply that all emotional responses lead to irrational beliefs or behaviors. Emotions may also support adaptive and rational decision-making.

10. Cognitive Offloading and Extended Mind

Extended Mind Thesis (Clark & Chalmers, 1998)

Objects outside the human body are part of the mind if they play an active role in cognitive processes. A notebook, a smartphone, an AI assistant can be considered part of extended cognition.

Cognitive Offloading (Risko & Gilbert, 2016)

The use of physical action to alter the information processing requirements of a task in order to reduce cognitive demand. Examples: writing a list instead of remembering, using GPS instead of navigating, asking AI instead of thinking.

10.1 Sovereignty Traps and Memory Lock-in

Concept	Author	Definition
Sovereignty Trap	Klein (2025)	Authoritative competence of AI tempts users to cede their own intellectual judgment. Users mistake access to information for genuine ability.
Memory Lock-in	Brcic (2025)	Users become cognitively dependent on AI assistants holding their deep personal memory. Switching is described as "cognitive amputation."



Common pattern: Both describe a progressive transfer of cognitive function from human to system, where the system's competence creates dependency, and dependency creates reluctance to leave – a classic lock-in dynamic applied to cognition.

Connection to legal framework: These mechanisms are not addressed by existing law because they operate through gradual, cumulative effects rather than discrete harmful acts. They represent a key regulatory blind spot identified in the accompanying legal paper.

11. Ideological Exclusivism

Feature	Description
Ideological monopolies	Single permitted worldview
Moral superiority narratives	"We are good, they are evil"
Demonization	Opponents portrayed as subhuman or malicious
Stigmatization	Labeling dissent as deviant or dangerous
Social exclusion	Expulsion from community for wrongthink

Ideological exclusivism creates cognitive dependency by removing alternatives. When only one worldview is permitted, individuals have no choice but to adopt it – or face exclusion.

12. Cognitive Warfare

Term	Description
Information warfare	Use of information to gain advantage
Psychological operations	Targeted influence on emotions and attitudes
Strategic communication	Coordinated narrative management
Hybrid warfare	Mix of military, economic, information tools
Narrative warfare	Competing to control the story

Key authors: Claverie, Du Cluzel, Tögel (2023)

Connection to legal framework: Council of the EU Guidelines on Cognitive Warfare (4 October 2024) recognize cognitive warfare as an emerging hybrid threat. The legal paper (section 3.5) discusses these guidelines and their implications.



PART III – PRODUCERS OF COGNITIVE DEPENDENCY

13. States and Geopolitical Actors

Tool	Description
Soft power (Nye)	Attraction rather than coercion
Public diplomacy	Direct communication with foreign publics
Strategic communication	Coordinated narrative management
National narratives	Self-presentation as good actor
Geopolitical influence	Shaping preferences of other nations

Key authors: Nye, Tögel

14. Media Systems

Mechanism	Description
Agenda setting	Determining what is important
Framing	Presenting issues from a particular perspective
Gatekeeping	Selecting which stories to tell
Narrative construction	Weaving facts into coherent stories

Key authors: Chomsky, Herman (*Manufacturing Consent*)

Table 14.1: Trust in News Media – Selected European Countries (2025)

Country	Trust in News Media (%)
Finland	67
Hungary	22
Greece	22

Source: Reuters Institute Digital News Report 2025.

Context from Eurobarometer 104 (Autumn 2025)

- 77% of EU citizens consider Russia's invasion of Ukraine a threat to the security of the European Union.
- 53% of EU citizens are satisfied with the EU's response to the invasion of Ukraine.
- Satisfaction with the EU's response ranges from 77% in Portugal to 32% in Cyprus.

Source: Standard Eurobarometer 104 – Autumn 2025.

Observation. Trust in news media varies substantially across European countries. At the same time, Eurobarometer surveys indicate broad concern regarding European security and significant variation in public attitudes toward the EU's response to geopolitical challenges.



Available evidence does not support a simple relationship between media trust and threat perception. Multiple factors, including political culture, historical experience, social media environments, peer networks and geopolitical proximity, may influence public attitudes.

Methodological Note. Country-level data on fear of Russia as a military threat are not available in published Eurobarometer summaries used in this study. Consequently, no direct comparison between media trust and threat perception is attempted. Further empirical research would be required to examine such relationships.

15. Digital Platforms

Mechanism	Description
Algorithms	Automated content selection
Recommendation systems	Personalized content feeds
Attention engineering	Designing for maximum time-on-platform
Engagement optimization	Prioritizing content that generates reaction

16. AI Systems as Emerging Producers of Cognitive Dependency

This is a distinct category, not merely a subset of digital platforms. AI systems produce cognitive dependency through unique mechanisms that differ from traditional media or platforms.

Mechanism	Description	Example
Conversational agents	AI that simulates human conversation	ChatGPT, Claude, Copilot
Recommendation agents	AI that suggests actions, purchases, content	TikTok algorithm, Amazon recommendations
Memory delegation	AI that stores and retrieves personal information	Memory features in AI assistants
Decision delegation	AI that makes decisions on behalf of users	Automated scheduling, prioritization
Synthetic authority	AI presented as neutral, objective, or omniscient	"According to AI..." as authoritative

Why AI is different from traditional media:

Dimension	Traditional Media	AI Systems
Interaction	One-to-many broadcast	Personalized conversation
Authority	Explicit (journalist, expert)	Synthetic (appears neutral)
Memory	No memory of user	Persistent memory across sessions
Adaptation	Static content	Dynamic, personalized response
Lock-in	Low	High (memory lock-in)



Key risks specific to AI:

- **Epistemic dependency on AI** – Treating AI output as truth without verification
- **Decision atrophy** – Reduced capacity for independent judgment through over-reliance
- **Memory lock-in** – Inability to switch AI assistants without losing personal memory (Brcic, 2025)
- **Sovereignty trap** – Mistaking access to AI for genuine understanding (Klein, 2025)

Connection to legal framework: AI Act Article 5 prohibits certain manipulative AI practices (subliminal techniques, exploitation of vulnerabilities). However, the gradual, cumulative effects of AI dependency are not addressed by existing law.

17. Commercial Systems of Influence

Mechanism	Description
Advertising	Persuasion for commercial gain
Consumer psychology	Understanding and exploiting decision-making
Behavioral economics	Nudging, choice architecture
Surveillance capitalism (Zuboff)	Extraction of behavioural data
Influencer ecosystems	Trust transfer from person to product
Attention economy	Monetizing human attention
Commercial manipulation	Exploiting cognitive vulnerabilities

Key authors: Zuboff, Kahneman, Sunstein, Thaler

Figure 10: Commercial Influence System

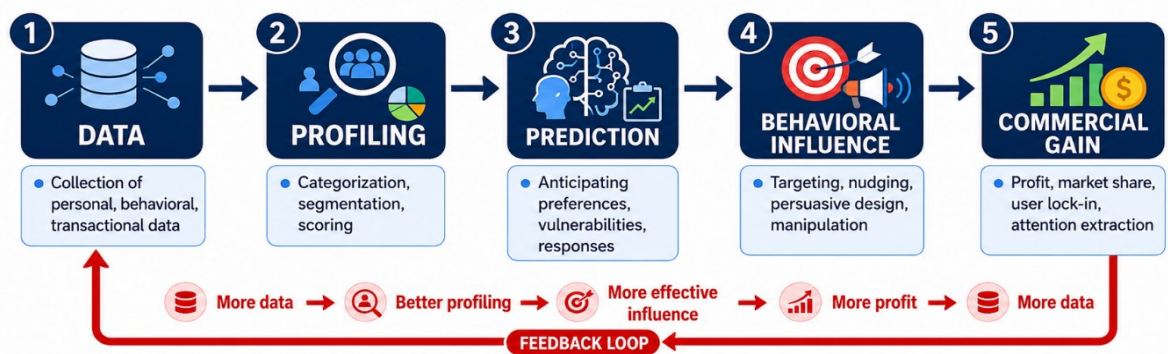


Figure 10: Commercial Influence System

The commercial influence system operates as a closed loop. Data collection enables profiling, which enables prediction of behavior and vulnerabilities. Prediction enables targeted behavioral influence (advertising, nudging, persuasive design, manipulation). Successful influence generates commercial gain (profit, market share, lock-in), which in turn funds further data collection. The system is self-reinforcing and operates largely outside consumer awareness.



18. Academia, Research and Think Tanks

Function	Description
Knowledge production	Creating and validating knowledge
Narrative legitimacy	Granting scientific authority to narratives
Expert authority	Trust in credentialed voices
Epistemological influence	Shaping what counts as knowledge

19. Civil Society and Advocacy Networks

Actor	Description
NGOs	Non-governmental organizations with missions
Activist organizations	Campaigning for change
Interest groups	Representing specific constituencies
Social movements	Collective action for change

20. Actors of Cognitive Influence

Figure 11: Actors of Cognitive Influence Map



21. Individual Consequences

Consequence	Description
Reduced autonomy	Decisions increasingly shaped by external systems rather than independent judgment
Decision paralysis	Inability to decide without external guidance or validation
Increased conformity	Preference for group acceptance over independent reasoning
Dependence on external validation	Reliance on approval, recognition and social reinforcement
Anxiety and uncertainty	Increased psychological vulnerability resulting from conflicting information and constant stimulation



Loss of intellectual confidence	Reduced trust in one's own capacity to evaluate claims and evidence
Identity fragility	Self-concept becomes dependent on external narratives, groups or authorities

Individual consequences are often the first visible manifestations of cognitive dependency. As external systems increasingly shape perception, interpretation and decision-making, individuals may gradually lose confidence in their own judgment and become more reliant on external sources of orientation and validation.

The process is typically cumulative rather than sudden. Repeated exposure to highly curated information environments, algorithmic recommendations, persuasive narratives and authority-based signals can reduce independent reflection and increase susceptibility to influence.

Illustrative Observation

Cognitive dependency may contribute to feelings of helplessness, reduced perceived agency and increased reliance on external authorities. Individuals who believe that important decisions are determined primarily by external actors may become more vulnerable to fear, passivity and conformity. The precise relationship between perceived helplessness, threat perception and cognitive dependency requires further empirical research.

22. Societal Consequences

Consequence	Description
Social fragmentation	Breakdown of shared social fabric
Polarization	Opposing camps unable to communicate
Tribalism	Loyalty to group over truth
Erosion of trust	Distrust of institutions, media, science, each other
Reduced social cohesion	Inability to act collectively

PART IV – CONSEQUENCES OF COGNITIVE DEPENDENCY

23. Democratic Consequences

Consequence	Description
Decline of informed citizenship	Citizens cannot make informed choices
Manipulation of public opinion	Elites shape what citizens believe
Weakening of democratic deliberation	No shared factual basis for debate
Reduced accountability	Citizens cannot hold power accountable without reliable information



Consequence	Description
Increased susceptibility to propaganda	Vulnerability to manipulation
Weakened deliberation	Arguments replaced by tribal loyalty
Voter manipulation	Elections decided by manipulation rather than preference
Institutional distrust	Distrust of courts, media and electoral authorities

Selected Eurobarometer 104 Indicators (Autumn 2025, EU averages)

Indicator	EU Average (%)
Concern about EU defence and security	78
Support for a common EU defence and security policy	81
Russia's invasion perceived as a threat to EU security	77
Support for financing military equipment for Ukraine	59
Support for a stronger EU role in security and protection	67

Source: Standard Eurobarometer 104 – Autumn 2025.

Observation. Available survey data suggest a relationship between perceived security threats and support for defence-related policies. However, threat perception is only one of several factors shaping public attitudes. Historical experience, political culture, media environments and trust in institutions may also play significant roles.

24. Strategic Consequences

Consequence	Description
Vulnerability to foreign influence	Foreign actors exploit cognitive dependency
Strategic dependency	Reliance on foreign systems for information, technology and narratives
Loss of national autonomy	Reduced capacity to pursue independent policy
Reduced societal resilience	Difficulty responding collectively to crises

Illustrative Observation

Threat perception is not purely objective but is influenced by historical experience, alliance structures, media environments and political narratives. Different societies may interpret identical geopolitical events in substantially different ways. Understanding these differences is essential for assessing strategic resilience and cognitive sovereignty.



25. Economic Consequences

Consequence	Description
Consumer manipulation	Purchasing decisions shaped by exploitation, not preference
Attention extraction	Time and focus extracted as raw material
Behavioral exploitation	Vulnerabilities monetized
Reduced innovation capacity	Dependent societies innovate less

Figure 12: Consequences of Cognitive Dependency Map

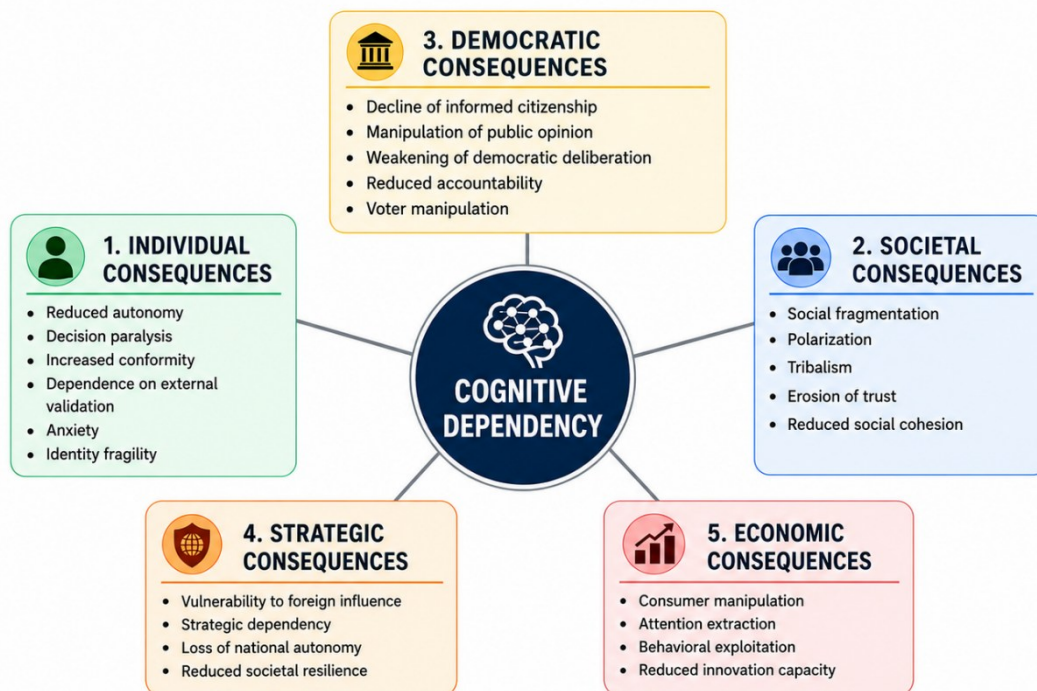


Figure 12: Consequences of Cognitive Dependency Map

Cognitive dependency produces cascading consequences across five interconnected domains: individual (loss of autonomy, anxiety), societal (fragmentation, polarization), democratic (erosion of deliberation, voter manipulation), strategic (vulnerability to foreign influence, loss of autonomy), and economic (consumer manipulation, attention extraction).

PART V – ETHICS OF INFLUENCE

26. When Is Influence Legitimate?

Principle	Description
Transparency	The target knows they are being influenced
Informed consent	The target agrees to the influence
Preservation of autonomy	The target retains capacity for independent judgment
Proportionality	Influence is proportional to the issue
Reversibility	The target can change their mind



27. When Does Persuasion Become Manipulation?

	Persuasion	Manipulation
Transparency	Open about intent	Hidden intent
Information	Accurate, complete	Selective, distorted
Autonomy	Preserved	Reduced
Consent	Informed	Exploited
Target	Reason	Emotions, vulnerabilities

28. Can Manipulation Ever Be Justified?

Context	Justification?	Condition
Parent-child	Possibly	Child lacks capacity
Emergency	Possibly	Imminent harm
Therapy	Possibly	Patient consent
Public health	Debated	Nudging vs coercion
Politics	No	Democracy requires autonomy
Commerce	No	Consumer sovereignty

29. Is Paternalistic Nudging Ethical?

Position	Argument
For (Sunstein, Thaler)	Preserves choice; helps overcome biases
Against	Undermines autonomy; slippery slope to manipulation

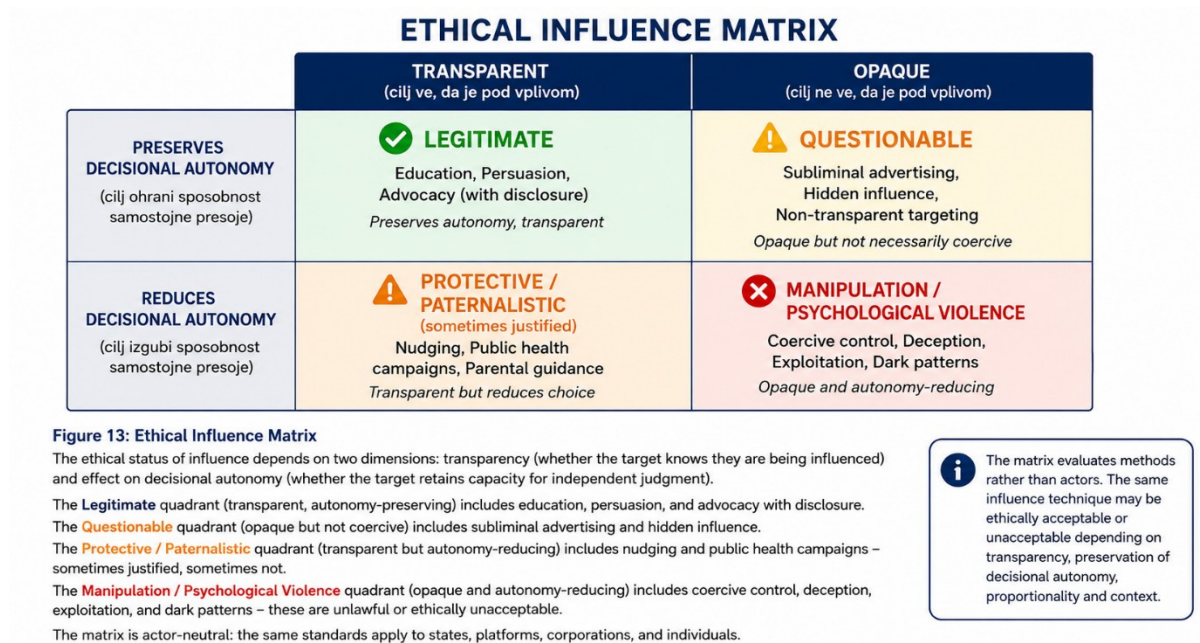
Key question: Who decides what is good for the individual?

30. The Ethical Influence Matrix

	Transparent	Opaque
Preserves autonomy	✓ Legitimate education, persuasion	⚠ Questionable (e.g., subliminal advertising)
Reduces autonomy	⚠ Paternalistic (sometimes justified)	✗ Manipulation, psychological violence



Figure 13: Ethical Influence Matrix



PART VI – FRAMEWORK FOR REGULATORY RESPONSES

Purpose

To provide a structured framework for future regulatory, educational and institutional responses without prescribing specific legislation. This framework serves as the **bridge** between conceptual analysis (this document) and legal regulation (accompanying legal paper).

31. Individual Level

Response	Description
Critical thinking	Evaluating claims, identifying biases
Information hygiene	See Part VII
Emotional self-regulation	Managing fear, anger, hope
Cognitive resilience	See Part VIII
Independent judgment	Practicing autonomous decision-making

32. Family Level

Response	Description
Early value formation	Teaching intellectual honesty, curiosity
Emotional security	Safe environment for questioning
Resilience development	Coping with uncertainty
Independent thinking	Encouraging questions, not just answers



33. Educational Level

Response	Description
Logic	Formal and informal reasoning
Argumentation	Constructing and evaluating arguments
Media literacy	Analyzing sources, detecting bias
Digital literacy	Understanding algorithms, data
Critical reasoning	Applying logic to real-world claims
Epistemology	What counts as knowledge?

34. Media Level

Response	Description
Transparency	Disclosing ownership, funding, conflicts
Editorial accountability	Corrections, ombudspersons
Source verification	Fact-checking standards
Pluralism	Multiple perspectives within outlet

Illustrative example (Source: European Commission – EU spending and revenue 2000–2024, 2024 data):

- EU spending allocated to 22 selected member states in 2024: approximately €44.84 billion
- Ukraine support reference: approximately €45 billion/year (EU's €90 billion package for 2026–2027)

This is a scale comparison, not a direct budget-equivalence claim. It illustrates the magnitude of EU financial transfers and the importance of transparency in public communication.

35. Platform Level

Response	Description
Algorithm transparency	Disclosing how recommendations work
Explainability	Why was this shown to me?
User control	Ability to adjust, disable algorithms
Recommendation systems	Reducing amplification of harmful content

Connection to legal framework: DSA Articles 34–35 already require VLOPs to assess and mitigate systemic risks, including those related to mental well-being and democratic discourse.



36. AI Systems Level

Response	Description
Memory portability	Right to transfer personal memory between AI systems (Brcic, 2025)
Synthetic authority disclosure	Clear labeling of AI-generated content as non-authoritative
Decision delegation limits	Restrictions on AI making binding decisions without human oversight
Epistemic dependency warnings	Notifications when user outsources judgment repeatedly
Lock-in prevention	Prohibition of technical barriers to switching AI assistants

Connection to legal framework: AI Act Article 5 prohibits subliminal and exploitative techniques. However, memory lock-in and synthetic authority are not yet addressed.

37. Commercial Level

Response	Description
Behavioral targeting	Transparency, opt-out rights
Dark patterns	Prohibition of deceptive design
Persuasive design	Ethical limits on attention engineering
Consumer autonomy	Right to make uninfluenced choices

Connection to legal framework: AI Act Article 5 prohibits subliminal and exploitative techniques. Consumer protection law prohibits dark patterns.

38. Political Level

Response	Description
Political advertising transparency	Who paid? Who was targeted?
Campaign transparency	Disclosure of funding, methods
Funding transparency	Follow the money
Foreign influence disclosure	Labeling foreign-sponsored content

Connection to legal framework: DSA requires transparency for political advertising on VLOPs. The proposed European Democracy Shield would expand these requirements.



39. State Level

Response	Description
Cognitive security	Protecting citizens from cognitive manipulation
Democratic resilience	Strengthening institutions against influence
Strategic communication standards	Transparency for public communication
Institutional transparency	Public access to decision-making

40. International Level

Response	Description
Common standards	Global norms for cognitive security
Human rights protection	Cognitive integrity as human right
Digital governance	Cross-border platform regulation
International cooperation	Mutual legal assistance, extradition

Figure 14: Multi-Level Protection Framework



Figure 14: Multi-Level Protection Framework

Protection against cognitive dependency requires coordinated action across multiple interconnected levels. Individual cognitive resilience is the foundation, supported by family, education, media, platforms, AI systems, commercial regulation, political transparency, state-level cognitive security and international governance. Each level contributes distinct protective functions and reinforces the levels above it. The ultimate objective of the framework is not the elimination of influence, but the preservation of cognitive sovereignty and autonomous judgment in complex information environments.



PART VII – INFORMATION HYGIENE

41. The Analogy

Domain	Practice	Purpose
Personal hygiene	Washing hands, brushing teeth	Prevent individual disease
Public health	Sanitation, vaccination	Prevent community disease
Information hygiene	Source verification, diversity, fact-checking	Prevent information disease

Just as personal hygiene prevents physical illness and public health prevents epidemics, information hygiene prevents cognitive contamination and societal information pollution.

42. Individual Information Hygiene Practices

Practice	Description
Source verification	Check the original source, not just headlines
Lateral reading	Leave the site to verify claims elsewhere
Diversity consumption	Seek out opposing perspectives
Delayed sharing	Wait 24 hours before sharing anything
Fact-checking	Use multiple fact-checking services
Notification management	Turn off non-essential notifications
Scheduled consumption	Designated times, not constant feed

43. Collective Information Hygiene

Practice	Description
Media literacy education	Teaching skills in schools
Public fact-checking	Independent verification services
Transparency requirements	Disclosing sources, methods
Algorithm auditing	Independent review of recommendation systems
Correction norms	Expectation that errors will be corrected

44. Information Hygiene vs Information Pollution

Pollution	Hygiene Response
Misinformation	Fact-checking, verification
Disinformation	Source tracking, labeling
Information overload	Scheduled consumption, filtering
Fragmentation	Diversity seeking, bridging



Figure 15: Information Hygiene Model

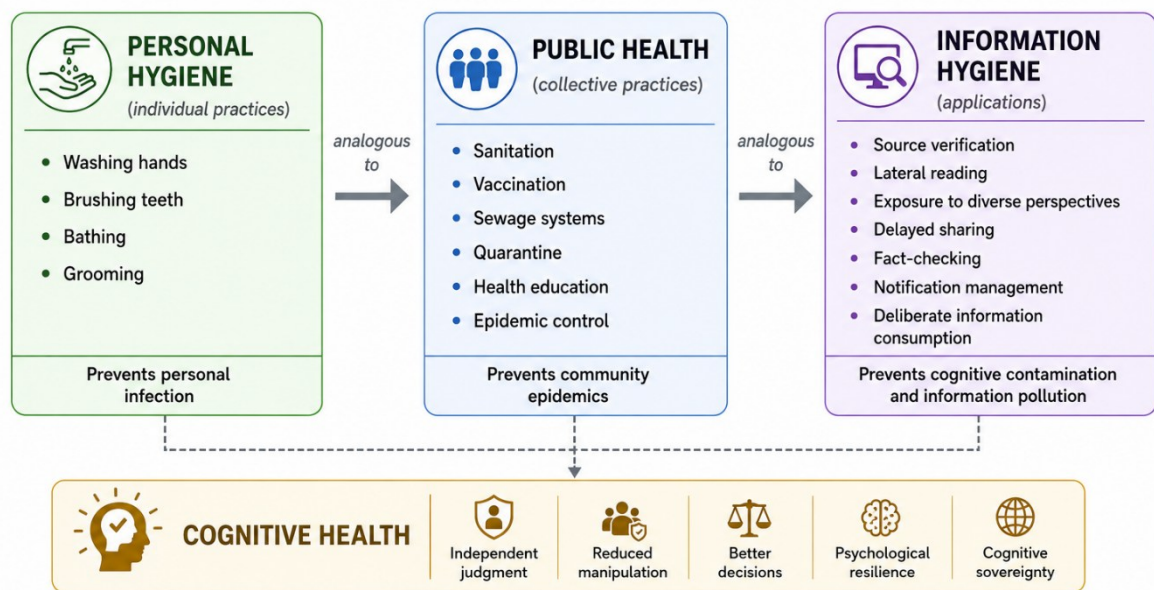


Figure 15: Information Hygiene Model

Information hygiene is analogous to personal hygiene and public health. Personal hygiene practices help prevent individual infection, while public health measures protect entire populations. Information hygiene applies the same logic to the information environment. Practices such as source verification, lateral reading, exposure to diverse perspectives, fact-checking and deliberate information consumption help prevent cognitive contamination and reduce vulnerability to information pollution. Just as personal hygiene and public health are complementary, individual information practices and collective information governance reinforce one another and contribute to long-term cognitive health and cognitive sovereignty.

PART VIII – COGNITIVE RESILIENCE

45. What Is Cognitive Resilience?

Cognitive resilience is the capacity to maintain independent judgment, emotional regulation and intellectual flexibility despite exposure to manipulation, uncertainty and competing narratives.

Cognitive sovereignty begins with cognitive resilience. Without resilience, there is no capacity for sovereignty.

46. Components of Cognitive Resilience

Component	Description
Resistance to manipulation	Recognizing and resisting influence attempts
Emotional resilience	Regulating fear, anger, hope
Tolerance of uncertainty	Comfort with not knowing
Tolerance of ambiguity	Holding multiple possibilities without premature closure
Delayed judgment	Resisting pressure for immediate conclusion
Independent verification	Checking claims before believing
Intellectual humility	Willingness to be wrong



47. The Cognitive Resilience Model

Stage	Description
Information	Exposure to claim or event
Reflection	Pause before accepting
Verification	Check sources, evidence
Judgment	Tentative conclusion
Decision	Action based on judgment
Revision	Willingness to update when new evidence arrives

This model contrasts with the dependency model:

Dependency Model	Resilience Model
Information → Belief → Action	Information → Reflection → Verification → Judgment → Decision → Revision

Figure 16: Cognitive Resilience Model

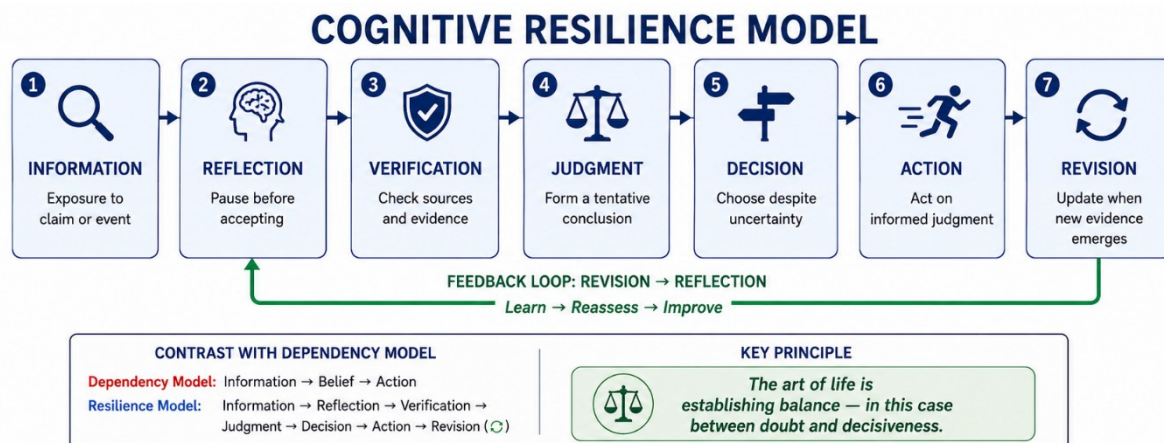


Figure 16: Cognitive Resilience Model

Cognitive resilience follows a cyclical process that contrasts sharply with the dependency model (Information → Belief → Action). Exposure to information is followed by reflection and verification. Judgment remains provisional and open to revision. Decision requires balancing uncertainty with the need to act. Action translates judgment into practice. Revision closes the loop by incorporating new evidence and returning the individual to reflection.

The feedback loop represents intellectual humility, continuous learning and adaptive reasoning. Cognitive resilience is therefore not certainty, but the capacity to balance doubt and decisiveness while preserving autonomous judgment.

- 🔍 Information: What is the claim?
- 🧠 Reflection: Should I accept it?
- 🔍 Verification: Is it credible?
- ⚖️ Judgment: What is most likely true?
- ➡️ Decision: What should I do?
- 🚶 Action: Implement my choice.
- 🔄 Revision: What new evidence exists?

PART IX – FROM RESILIENCE TO SOVEREIGNTY

48. The Hierarchy of Cognitive Protection

Level	Concept	Description
1	Information Integrity	Information is accurate, complete, verifiable
2	Information Hygiene	Practices to maintain clean information environment
3	Cognitive Resilience	Capacity to resist manipulation, tolerate uncertainty



Level	Concept	Description
4	Cognitive Integrity	Right and capacity for autonomous judgment
5	Cognitive Sovereignty	Continuous effort to preserve independent judgment

Each level builds on the previous. Without information integrity, information hygiene is impossible. Without hygiene, resilience is undermined. Without resilience, integrity is vulnerable. Without integrity, sovereignty is meaningless.

Figure 17: Cognitive Sovereignty Pyramid



49. Cognitive Sovereignty (Definition)

Cognitive sovereignty is the continuous individual and collective effort to preserve autonomous judgment while navigating competing influences, narratives, interests and uncertainties.



What cognitive sovereignty is NOT:

- Freedom from all influence (impossible)
- Isolation from society (counterproductive)
- Certainty about everything (unrealistic)

What cognitive sovereignty IS:

- The capacity to evaluate competing claims
- The ability to change one's mind when evidence changes
- The willingness to tolerate uncertainty
- The practice of delayed judgment
- The maintenance of intellectual humility

50. The Five Pillars of Cognitive Sovereignty

Pillar	Description
Informational Sovereignty	Control over information intake, media systems, algorithms
Epistemological Autonomy	Independent knowledge production, science, research
Narrative Power	Ability to shape public discourse and cultural frameworks
Cognitive Resilience	Resistance to manipulation, critical thinking, information hygiene
Value Autonomy	Protection from subliminal and emotional manipulation

Figure 18: Five Pillars of Cognitive Sovereignty

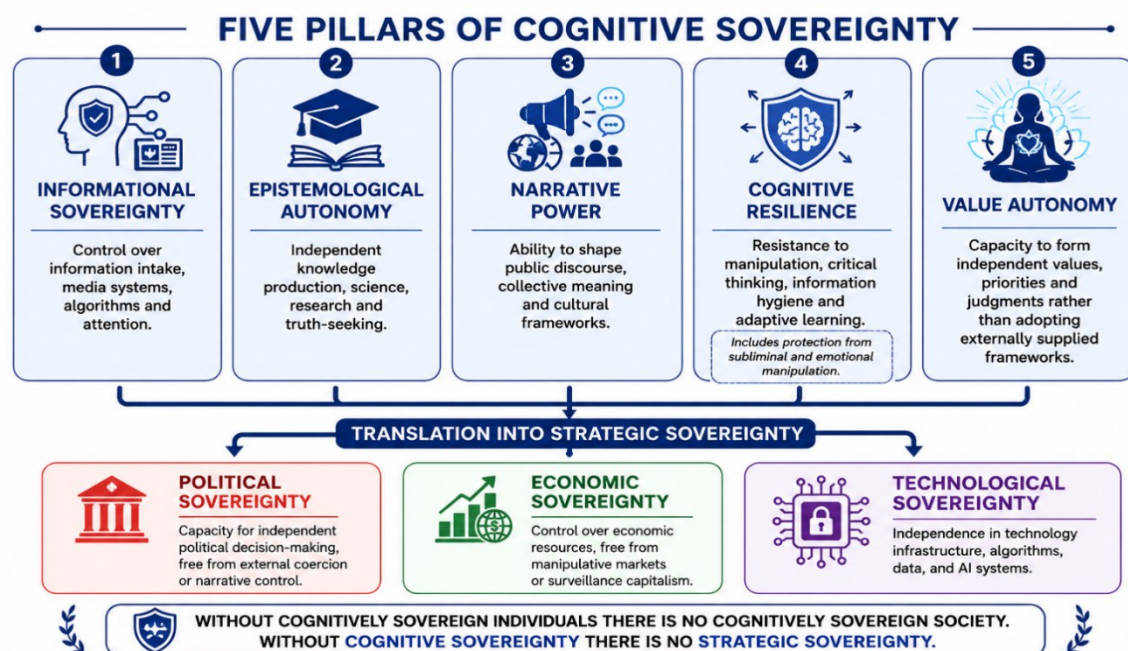


Figure 18: Five Pillars of Cognitive Sovereignty

Cognitive sovereignty rests on five interconnected pillars. Together they translate into three higher-order forms of sovereignty: political, economic and technological. These sovereign capabilities depend on citizens who can think independently, access truth, shape meaning, resist manipulation and form their own values. Protecting and strengthening these pillars is the foundation for a free, prosperous and technologically independent society.

51. Cognitive Sovereignty as Equilibrium

- The art of life lies in maintaining equilibrium between doubt and determination.
- Too much doubt → paralysis, inability to act
- Too much determination → dogmatism, inability to learn
- Cognitive sovereignty is the expression of that equilibrium at individual and societal levels.

Figure 19: Cognitive Sovereignty Ecosystem

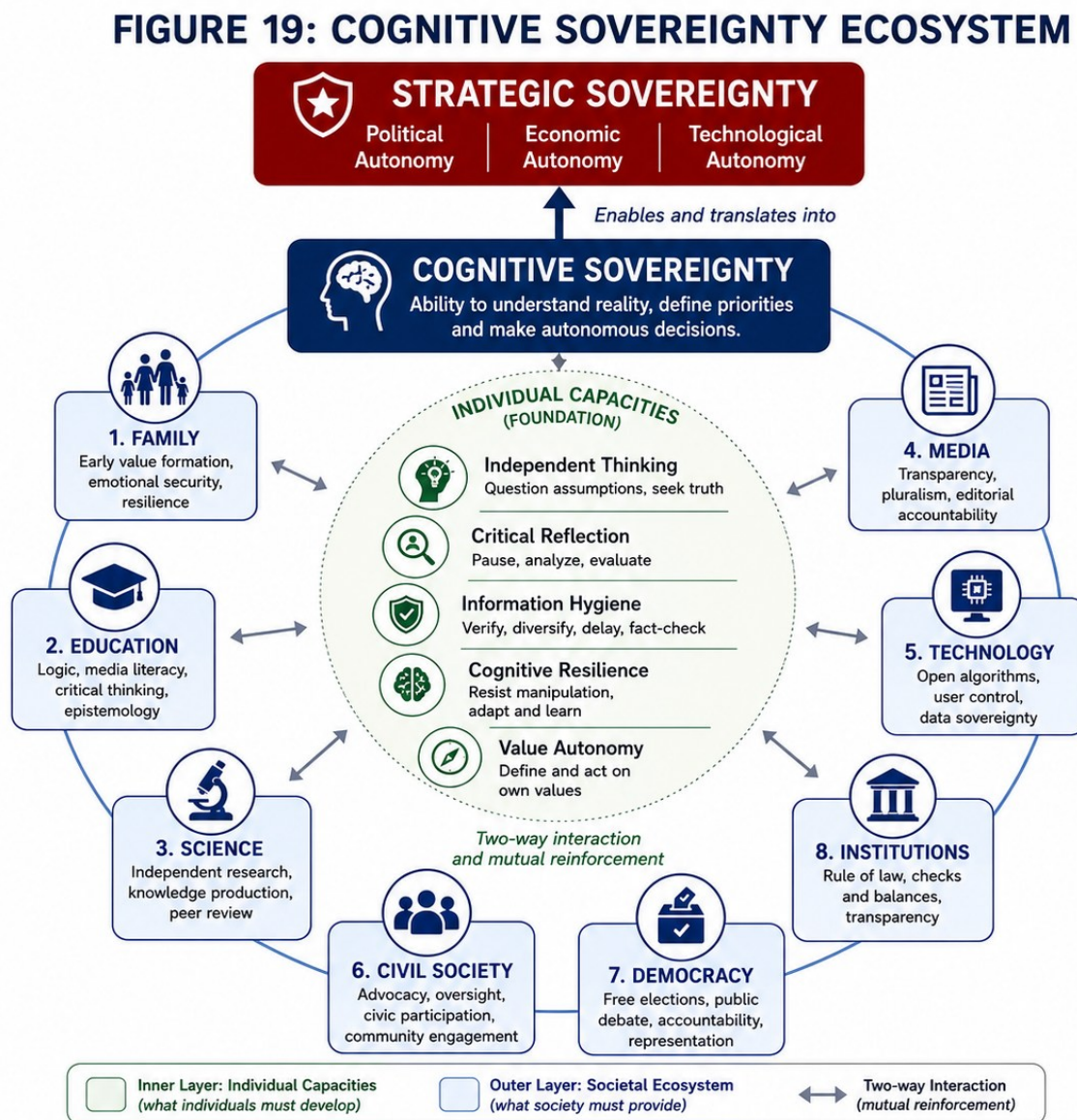


Figure 19: Cognitive Sovereignty Ecosystem

Cognitive sovereignty does not emerge in isolation. It arises from the interaction between individual capacities and societal institutions. Independent thinking, critical reflection, information hygiene, cognitive resilience and value autonomy form the individual foundation of cognitive sovereignty.

These capacities are supported and reinforced by a broader ecosystem consisting of family, education, science, media, technology, civil society, democracy and public institutions. Each domain contributes essential resources, norms and safeguards that enable individuals to think freely and act responsibly.

Together they enable cognitive sovereignty — the capacity for autonomous judgment. Cognitive sovereignty in turn provides the foundation for strategic sovereignty, including political, economic and technological autonomy. Without a healthy ecosystem, cognitive sovereignty cannot flourish; without cognitive sovereignty, strategic sovereignty remains illusory.



PART X – EUROPEAN STRATEGY FOR COGNITIVE SOVEREIGNTY

52. Why Europe?

Factor	Europe's Vulnerability	Europe's Strength
Strategic sovereignty	Dependent on foreign platforms, AI	Strong regulatory capacity (DSA, AI Act)
Democratic resilience	Vulnerable to disinformation	Strong democratic institutions
Cultural diversity	Fragmentation risk	Pluralism as strength
Technological dependence	Few European platforms	Developing European alternatives
Information dependence	Reliance on US platforms	Regulatory leverage (DSA)

53. Strategic Sovereignty

Cognitive sovereignty is a prerequisite for strategic sovereignty. A nation whose citizens are cognitively dependent cannot exercise independent foreign policy, resist foreign pressure, or maintain democratic institutions.

54. Democratic Sustainability

Democracy depends on citizens capable of independent judgment. When cognitive dependency becomes widespread, democracy is hollowed out from within. Elections continue, but citizens cannot make informed choices. Accountability disappears. Trust erodes.

Protecting cognitive integrity is therefore not merely an individual concern. It is a precondition for democratic sustainability.

55. European Strategy Components

Component	Description
Regulatory	DSA, AI Act, GDPR as foundation; further development needed
Educational	Media literacy, critical thinking in all curricula
Technological	European platforms, open algorithms, transparency
Cultural	Supporting diverse European voices
Resilience	Civil society training, public awareness
International	Setting global standards for cognitive security

Case Study: Spain

Spain exhibits lower fear and lower militarisation pressure despite low or moderate objective exposure to Russia. This suggests:

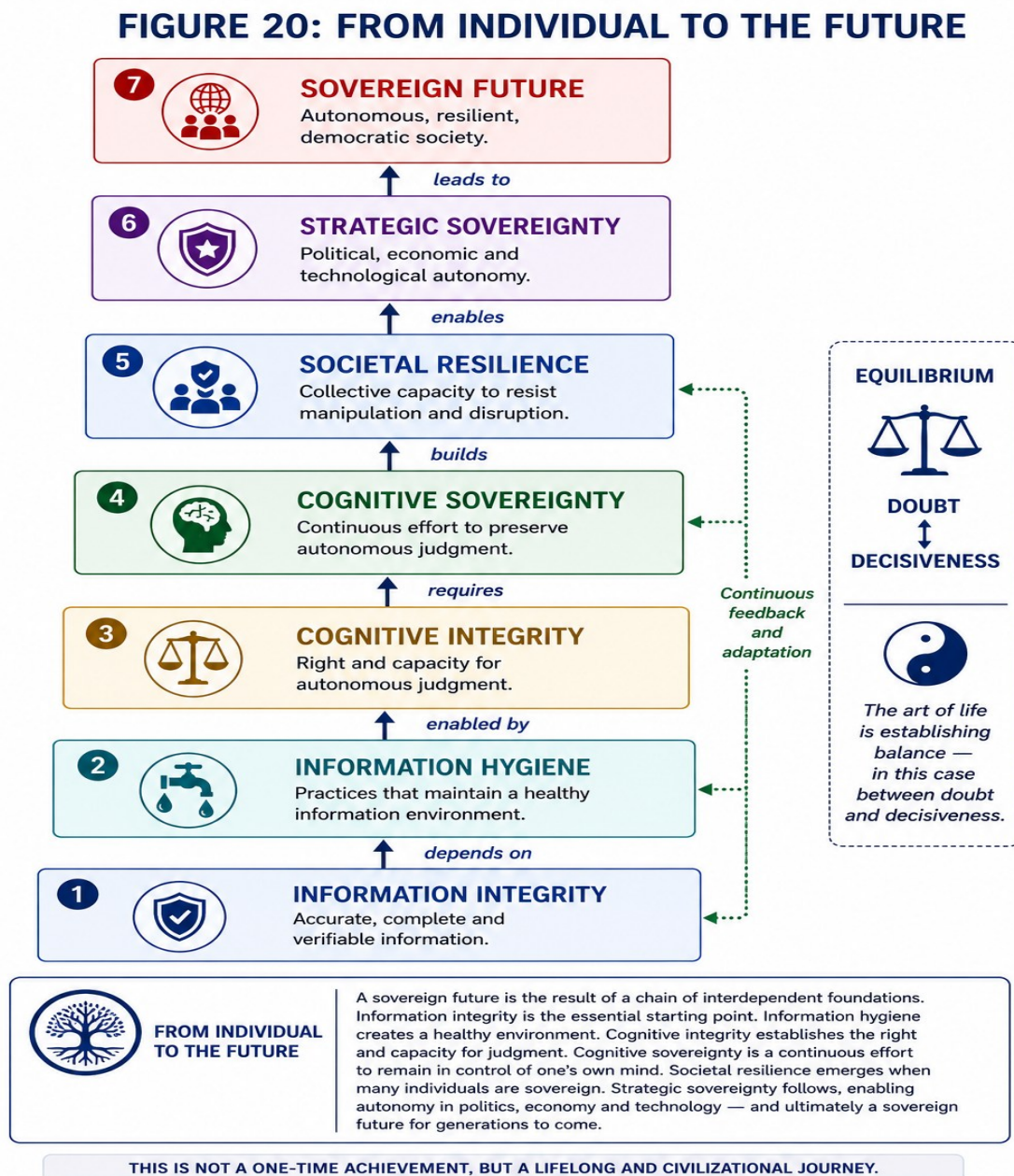


- Fear remains moderate despite very low direct exposure
- Public not trapped in the emotion–narrative inflation cycle
- Evidence of stronger psychological distance and stability
- Commitment to peace over escalation, democracy and international law

Source: Eurobarometer 104 (Fear of War/Threat Perception, 2025); Cluster17 / Le Grand Continent (Exposure Index).

Illustrative example requiring empirical validation. Spain demonstrates that cognitive sovereignty is possible – not through isolation, but through resilience, democratic culture and strategic maturity.

Figure 20: From Individual to the Future





PART XI – THEORETICAL FOUNDATIONS

56. Propaganda, Public Opinion and Manufactured Consent

Hannah Arendt (1906–1975)

Key concept: Totalitarianism, propaganda and the destruction of factual reality.

Arendt argued that totalitarian regimes do not merely suppress dissent but actively destroy the capacity for independent judgment by blurring the distinction between fact and fiction, truth and falsehood.

Connection: Arendt's work illuminates how systematic information manipulation can erode the conditions necessary for autonomous judgment – a process closely related to cognitive dependency.

Noam Chomsky (b. 1928) and Edward Herman (1925–2017)

Key concept: Manufacturing Consent (1988).

Chomsky and Herman proposed a "propaganda model" of media in which structural filters (ownership, advertising, sourcing, flak, anti-communist ideology) systematically shape news content.

Connection: The propaganda model illustrates how systemic, institutional factors can shape public perception – an early formulation of systemic psychological influence.

57. Psychological Mechanisms of Influence

Daniel Kahneman (b. 1934)

Key concept: System 1 and System 2 thinking (Thinking, Fast and Slow, 2011).

Kahneman demonstrated that human cognition operates through two systems: System 1 (fast, intuitive, automatic) and System 2 (slow, deliberative, analytical). System 1 is highly susceptible to cognitive biases and framing effects.

Connection: Kahneman's work explains why manipulation works. Influence systems often target System 1 processing, bypassing deliberative reasoning.

Robert Cialdini (b. 1945)

Key concept: Principles of persuasion (authority, social proof, reciprocity, scarcity, liking, consistency).

Connection: These mechanisms are systematically exploited by commercial and political actors across all jurisdictions.



Mattias Desmet (b. 1970)

Key concept: Mass formation.

Desmet has analyzed how collective psychological processes can lead to shared beliefs and behaviors without rational foundation.

Connection: Desmet's analysis is relevant to understanding societal-level cognitive dependency.

58. Digital Influence and Behavioral Engineering

Shoshana Zuboff (b. 1951)

Key concept: Surveillance capitalism (The Age of Surveillance Capitalism, 2019).

Connection: Surveillance capitalism describes the commercial production of behavioral dependency – a structural driver of cognitive dependency.

Jaron Lanier (b. 1960)

Key concept: Behavior modification business models.

Connection: Lanier's critique identifies the commercial incentives that drive algorithmic influence systems.

Cass Sunstein (b. 1954) and Richard Thaler (b. 1945)

Key concept: Nudging and choice architecture (Nudge, 2008).

Connection: Sunstein's work illuminates the boundary between legitimate guidance and manipulative interference with autonomy.

59. Power, Knowledge and Social Control

Michel Foucault (1926–1984)

Key concept: Disciplinary power and normalization.

Connection: Foucault's analysis provides a framework for understanding institutional and societal influence systems that operate without explicit violence.

60. Contemporary Discussions of Cognitive Sovereignty

Mario Brcic (2025)

Key concept: Cognitive sovereignty in the age of AI.



Bric defines cognitive sovereignty as "the ability of individuals, groups, and nations to maintain autonomous thought and preserve identity in the age of powerful AI systems, especially those that hold their deep personal memory."

Key concepts: Network Effect 2.0, memory lock-in ("cognitive amputation"), AI colonialism.

Christian R. Klein (2025)

Key concept: Sovereignty Trap.

Klein describes a mechanism where the authoritative competence of AI systems tempts users to cede their own intellectual judgment, mistaking access to information for genuine ability. He writes of the "hollowed mind."

Gargi Tripathi and Lipi Saxena (2025)

Key concept: Epistemic colonization (The Managed Mind).

Tripathi and Saxena argue that mechanisms of power operate within the citizen's own consciousness. They call for a new form of social contract that protects the integrity of the psyche.

Nita Farahany (2023)

Key concept: Cognitive liberty / Right to think freely (The Battle for Your Brain, 2023).

Farahany argues that emerging neurotechnologies threaten cognitive liberty – the right to self-determination over one's own brain and mental processes.

Connection: Farahany's concept of cognitive liberty is closely related to cognitive integrity. Neurotechnology threatens from the inside; influence systems threaten from the outside.

60.1 Luciano Floridi (b. 1964) – Information Integrity and the Infosphere

Key concept: Infosphere, information integrity, information hygiene, onlife (The Philosophy of Information, 2011; The Ethics of Information, 2013; The Green and the Blue, 2023).

Floridi is an Italian philosopher of information and one of the most influential thinkers on digital ethics and information philosophy. He argues that contemporary societies live in an **infosphere** – an environment where information and physical reality are no longer separate but deeply integrated. Digital technologies are not tools we use; they are environments we inhabit (the "onlife" condition).



Key concepts relevant to cognitive dependency:

Concept	Description
Infosphere	The entire information environment as a unified space – physical, digital, biological, social
Information integrity	The quality of information as accurate, complete, verifiable and trustworthy
Information hygiene	Practices to prevent information pollution and maintain a clean infosphere
Onlife	The condition where online and offline life are no longer distinguishable
Information ethics	Ethical framework for the infosphere, extending moral consideration to information entities

Connection to this paper: Floridi's concept of **information integrity** directly informs the hierarchy proposed in Part IX (from Information Integrity to Information Hygiene to Cognitive Resilience to Cognitive Integrity to Cognitive Sovereignty). His call for **information hygiene** as a collective practice (analogous to public health) is the theoretical foundation for Part VII of this document.

Floridi writes: *"We are not standalone informational agents. We are embedded in an infosphere that shapes our perception, our knowledge, and our decisions. Protecting the integrity of the infosphere is not a luxury. It is a precondition for autonomous judgment."*

Connection to legal framework: Floridi's work provides philosophical justification for regulating information environments (DSA, AI Act) as a matter of protecting the conditions for autonomous judgment – not as censorship but as infrastructure protection.

61. Jonas Tögel (2023) – Cognitive Warfare

Jonas Tögel (active 2023–2025)

Key concept: Cognitive warfare (Kognitive Kriegsführung).

Tögel argues that NATO has been developing cognitive warfare since 2020, described as "the most advanced form of manipulation" with the goal of "hacking human thoughts like computers." He analyzes the Integrity Initiative and the exploitation of nudging for political manipulation.

Connection: Tögel provides detailed analysis of psychological manipulation as systematic state practice – precisely the "soft power" and "systematic manipulation" dimensions of cognitive dependency.



62. Synthesis and Original Contribution

The common thread across these theoretical contributions – from Arendt to Tögel, from Farahany to Brcic, from Floridi to Tögel – is the recognition that psychological violence is not confined by borders.

Foreign actors, commercial platforms, domestic institutions and interpersonal perpetrators may employ similar methods. The mechanisms of influence – repetition, emotional targeting, selective exposure, algorithmic manipulation, behavioral engineering, narrative coercion – are universal. The harm to the individual – the gradual erosion of autonomous judgment – is the same regardless of the source.

The concept of **cognitive dependency** proposed in this paper synthesizes these observations into a common analytical framework.

Original contribution of this paper:

1. Synthesis of existing observations into a unified legal and conceptual framework applicable across domestic, foreign, commercial and institutional actors
2. Cognitive dependency as a distinct regulatory blind spot
3. Hierarchy from information integrity to cognitive sovereignty (informed by Floridi)
4. Actor-neutral operational definitions
5. Asymmetric regulation of public vs private vs foreign actors
6. Integration of epistemic dependency, AI systems, and cognitive resilience into a coherent model



PART XII – FINAL SYNTHESIS

63. Cognitive Dependency Framework Summary

COGNITIVE DEPENDENCY FRAMEWORK SUMMARY TABLE

PROBLEM	CONSEQUENCE	PROTECTIVE RESPONSE
INFORMATION POLLUTION (misinformation, disinformation, overload, fragmentation)	Distorted perception, epistemic chaos, loss of shared factual basis for public debate	INFORMATION HYGIENE (source verification, lateral reading, fact-checking, exposure to diverse perspectives)
PSYCHOLOGICAL VIOLENCE (coercive control, systematic manipulation, gaslighting)	Reduced autonomy, impaired judgment, psychological harm, erosion of dignity	PSYCHOLOGICAL PROTECTION (legal regulation, coercive control legislation, Directive (EU) 2024/1385, criminal law protections)
MANIPULATION (fear-based persuasion, algorithmic targeting, synthetic authority, dark patterns)	Cognitive dependency through progressive transfer of judgment to external systems	COGNITIVE RESILIENCE (emotional regulation, delayed judgment, tolerance of uncertainty, critical reflection)
COGNITIVE DEPENDENCY (persistent reliance on external systems for judgment, orientation and decision-making)	Erosion of Cognitive Integrity through loss of autonomous judgment	PROTECTION OF COGNITIVE INTEGRITY (right to autonomous judgment, transparency, accountability, informed consent)
LOSS OF COGNITIVE INTEGRITY (systemic erosion of autonomous judgment at societal scale)	Democratic vulnerability, strategic dependency, susceptibility to foreign influence, reduced societal resilience	COGNITIVE SOVEREIGNTY Continuous effort to preserve independent judgment through equilibrium between doubt and decisiveness

Caption

This table summarizes the Cognitive Dependency Framework. The progression from left to right represents the transition from problem to consequence and protective response. The vertical progression from top to bottom represents increasing severity and the need for higher-level responses.

Information Pollution (misinformation, disinformation, overload and fragmentation) produces distorted perception and epistemic chaos; the response is Information Hygiene. Psychological Violence (coercive control, systematic manipulation and gaslighting) impairs autonomous judgment and causes psychological harm; the response is Psychological Protection through



legal regulation and criminal law. Manipulation (fear-based persuasion, algorithmic targeting, synthetic authority and dark patterns) produces Cognitive Dependency; the response is Cognitive Resilience. Cognitive Dependency gradually erodes Cognitive Integrity; the response is Protection of Cognitive Integrity through transparency, accountability and protection of autonomous judgment. Finally, the Loss of Cognitive Integrity at societal scale produces democratic vulnerability, strategic dependency and susceptibility to external influence; the response is Cognitive Sovereignty.

Each level builds upon the previous one. Without information hygiene, cognitive resilience is weakened. Without resilience, cognitive integrity cannot be protected. Without integrity, cognitive sovereignty becomes impossible. The framework is actor-neutral and applies equally to individuals, institutions, corporations, media systems and states.

The framework progresses from information quality to cognitive sovereignty. Cognitive sovereignty is not understood as a fixed state, but as a continuous balancing process between openness to revision and the capacity to act. The art of life lies in maintaining equilibrium between doubt and decisiveness.

Final Reflection

Cognitive dependency is not the absence of intelligence, education or information.

It is the progressive transfer of judgment from the individual to external systems of influence.

Cognitive sovereignty is not the absence of influence.

It is the continuous effort to preserve autonomous judgment despite influence.

The art of life lies in maintaining equilibrium between doubt and determination.

A democratic society should strive to ensure that this equilibrium remains possible – for individuals, for democracy, and for the state.



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LIST OF FIGURES

Figure 1. The Full System of Influence

Figure 2. Cognitive Sovereignty Framework

Figure 3. Types of Cognitive Dependency Map

Figure 4. Cognitive Dependency Mechanisms

Figure 5. Information Pollution Map

Figure 6. Psychological Violence Pyramid

Figure 7. Influence Continuum

Figure 8. Full System of Influence Pathway

Figure 9. Emotional Influence Pathway (Information → Emotion → Belief → Behavior)

Figure 10. Commercial Influence System

Figure 11. Actors of Cognitive Influence Map

Figure 12. Consequences of Cognitive Dependency Map

Figure 13. Ethical Influence Matrix

Figure 14. Multi-Level Protection Framework

Figure 15. Information Hygiene Model

Figure 16. Cognitive Resilience Model

Figure 17. Cognitive Sovereignty Pyramid

Figure 18. Five Pillars of Cognitive Sovereignty

Figure 19. Cognitive Sovereignty Ecosystem

Figure 20. From Individual Integrity to Societal Resilience



#	Title	Description
F1	The Full System of Influence	Diagram: Sources of influence → Mechanisms → Consequences → Cognitive sovereignty
F2	The Cognitive Dependency Framework	Central circle "Cognitive Dependency" with ten surrounding types (Individual, Collective, Political, Ideological, Media, Technological, Commercial, Cultural, Educational, Epistemic)
F3	Types of Cognitive Dependency Map	Radial diagram with eight nodes, each with brief description
F4	The Cognitive Dependency Cycle	Circular flow: Exposure → Repetition → Normalization → Identity Attachment → Dependency Formation → Resistance to Alternatives
F5	Information Pollution Map	Five sources (states, platforms, media, corporations, individuals) feeding into five types of pollution, leading to five consequences
F6	Psychological Violence Pyramid	Pyramid: bottom (Individual) – middle (Organizational, Commercial) – top (Political, Societal)
F7	Influence Continuum	Horizontal bar from green (Information) through yellow (Persuasion) to orange (Propaganda) to red (Psychological Violence)
F8	Full System of Influence	Sources, mechanisms, consequences
F9	Figure 9. Emotional Influence	Pathway (Information → Emotion → Belief → Behavior)
F10	Commercial Influence System	Linear flow: Data → Profiling → Prediction → Behavioral Influence → Commercial Gain
F11	Actors of Cognitive Influence Map	Seven interconnected nodes: States, Media, Platforms, AI Systems, Corporations, Academia, NGOs, Influencers
F12	Consequences of Cognitive Dependency Map	Central circle "Cognitive Dependency" with five arrows pointing to consequence clusters (Individual, Societal, Democratic, Strategic, Economic)
F13	Ethical Influence Matrix	2×2 matrix: Transparent/Opaque vs Preserves autonomy/Reduces autonomy
F14	Multi-Level Protection Framework	Vertical flow from Individual → Family → Education → Media → Platforms → AI Systems → Commercial → Politics → State → International Governance
F15	Information Hygiene Model	Three columns: Personal Hygiene (individual practices), Public Health (collective practices), Information Hygiene (applications)
F16	Cognitive Resilience Model	Linear flow: Information → Reflection → Verification → Judgment → Decision → Revision (with feedback arrow)



#	Title	Description
F17	Cognitive Sovereignty Pyramid	Pyramid with five layers: Information Integrity → Information Hygiene → Cognitive Resilience → Cognitive Integrity → Cognitive Sovereignty
F18	Five Pillars of Cognitive Sovereignty	Five pillars diagram (Informational Sovereignty, Epistemological Autonomy, Narrative Power, Cognitive Resilience, Cognitive Sovereignty) with translation arrows to Political, Economic, Technological Sovereignty
F19	Cognitive Sovereignty Ecosystem	Seven interconnected nodes: Family, Education, Science, Media, Technology, Civil Society, Democracy, Institutions → central "Cognitive Sovereignty" → "Strategic Sovereignty"
F20	From Individual to the Future	Diagram showing transition from individual cognitive sovereignty through societal resilience to strategic sovereignty

LIST OF TABLES

#	Naslov	Kratek opis
T1	Types of Cognitive Dependency	Overview table with Type, Definition, Example
T2	Epistemic Dependency Subtypes	Table with Subtype, Description, Example
T3	The Cognitive Dependency Vulnerability Scale	Factors (education, information diversity, social support, cognitive load, digital literacy, age, epistemic training) with Low vs High Vulnerability
T4	Types of Information Pollution	Table with Type, Definition, Example
T5	The Information Pollution Lifecycle	Table with Stage and Description
T6	Levels of Psychological Violence	Table with Level, Description, Example
T7	Coercive Control Mechanisms	Table with Mechanism and Description
T8	The Influence Continuum	Table with Stage, Description, Legitimacy



#	Naslov	Kratek opis
T9	Key Distinction: Legitimate Influence vs Manipulation vs Psychological Violence	Table with Transparency, Consent, Autonomy, Intent
T10	Conscious Mechanisms of Influence	Table with Mechanism and Description
T11	Subconscious Mechanisms of Influence	Table with Mechanism and Description
T12	Why AI is Different from Traditional Media	Table with Dimension, Traditional Media, AI Systems
T13	Key Risks Specific to AI	Table with Risk and Description
T14	Individual Consequences of Cognitive Dependency	Table with Consequence and Description
T15	Democratic Consequences of Cognitive Dependency	Table with Consequence and Description
T16	When Is Influence Legitimate?	Table with Principle and Description
T17	When Does Persuasion Become Manipulation?	Table comparing Persuasion vs Manipulation (Transparency, Information, Autonomy, Consent, Target)
T18	Can Manipulation Ever Be Justified?	Table with Context, Justification?, Condition
T19	Multi-Level Regulatory Framework	Table with Level (Individual, Family, Educational, Media, Platform, AI Systems, Commercial, Political, State, International) and Response



#	Naslov	Kratek opis
T20	Components of Cognitive Resilience	Table with Component and Description
T21	The Hierarchy of Cognitive Protection	Table with Level, Concept, Description
T22	The Five Pillars of Cognitive Sovereignty	Table with Pillar and Description
T23	European Strategy Components	Table with Component and Description
T24	Cognitive Dependency Framework Summary	Final synthesis table: Problem → Consequence → Protective Response
T25	Cognitive Dependency Framework Summary	Final synthesis table: Problem → Consequence → Protective Response with detailed descriptions

Document: Libertas Europa

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