



**GOUVERNEMENT**

*Liberté  
Égalité  
Fraternité*

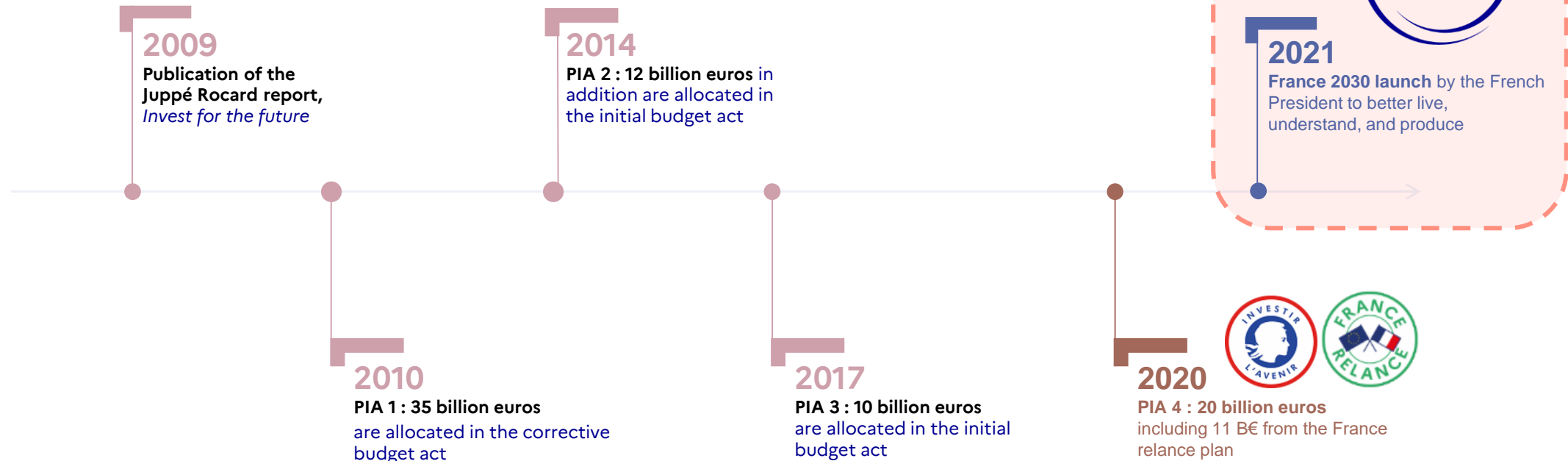


# National **Cybersecurity** Strategy

November, 2023

# FRANCE 2030, PIA : DISRUPTIVE CONTINUITY

## 10 years of experience, 4 successive programs



# FRANCE 2030 : A COMBINED APPROACH TO INNOVATION

## « DIRECTED » innovation

40,5 B€

**PURPOSE :** Support strategic investment priorities, to meet the grand challenges of transforming our economy and our society.

### ACROSS FRANCE 2030 OBJECTIVES AND LEVERS

By acting at all levels, across dedicated funding tools :

Priority research programs and facilities	3 B€
Technological maturation, collaborative R&D, technological transfer	3 B€
Demonstration in realistic conditions, seeding and commercial firsts	7,5 B€
Support to deployment	10,5 B€
Growth acceleration (equity financing)	3,5 B€
Industrialization and deployment	13 B€

## « STRUCTURAL » innovation 13,5 B€

**PURPOSE :** Sustain the funding of the higher education, research and transfer ecosystem while continuing to support innovative companies.

### BY FUNDING HIGHER EDUCATION, RESEARCH AND TRANSFER

6,25 B€

Entities funded by the interest of non-consumable endowments  
(IRT-ITE, SATT, IHU, IdEx, ISITE, Labex...)

3 B€

Project specific funding  
(ExcellencES, Development strategies acceleration, New approaches to learning...)

1,25 Md€

Health research  
(IHU, Cohorte, infrastructures...)

1 B€

Disruptive innovation

1 Md€

### THROUGH SUPPORT TO INNOVATION

7,25 B€

Desk funding  
(incl. deep tech, new industry loans, etc.)

1,5 B€

Innovation challenges  
(i-PhD + i-Lab + i-Nov)

0,5 B€

Structuring R&D projects  
(i-démo & CORI)

1 B€

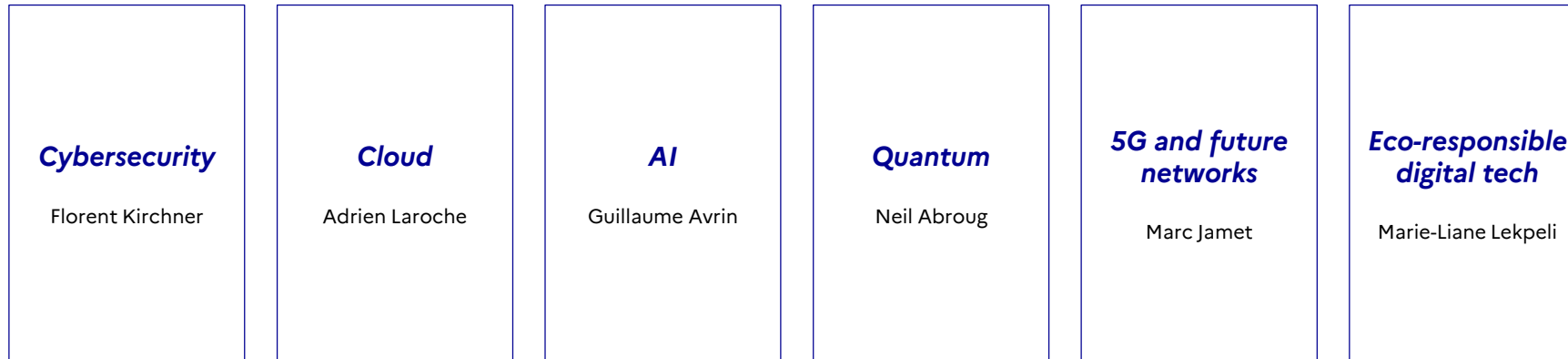
Territorial segment of France 2030  
(Innov. challenge and R&D)

0,5 B€

# Inter-ministerial involvement in deploying France 2030

## MINISTERIAL STEERING COMMITTEE

### Pooling directed strategies



### In support to interministerial discussions and decisions

Ministry of economy, finance, and industrial and digital sovereignty (Presidency)  
Ministry of higher education and research (Presidency)  
Ministry of Defense  
Ministry of education and youth  
Ministry of energy transition  
Prime Minister (SGDSN, ANSSI, DINUM, SGPI (secretariat))



**Sustainably transform through technological innovation**

**Harness and control digital technologies**

**Position France as a key player in Europe and across the world**

# CRITICAL STAKES



## Economical

**Build up and participate in  
the European market**

Investment in scaleups  
Normalization, regulation,  
certification, etc.  
European and National  
Competence Centers

...



## Societal

**Secure local communities, small  
entities and citizens**

Accessibility  
Support to deployment  
Specific requirements

...



## Scientific x technological

**Understand and harness emerging  
challenges, accelerate innovation**

Favor synergies and critical masses  
Encourage academia - industry  
collaborations  
Support entrepreneurship coming from  
technical expertise

...

*The cybersecurity strategy announced on February 18th, 2021 by the French President is the first plan of this scope on the topic, both in terms of means and in terms of objectives*

**x2 the amount of jobs in  
the sector**

From 37 000 to 75 000 positions

**OBJECTIVES**

**&**

**AMBITIONS**

**Boost industrial  
innovation**

Increase knowledge transfer (patents, artefacts, etc.) by 20%  
Increase collaborative research by 30%

**Emergence of 3 french  
cyber unicorns**

Currently 1 cybersecurity startup in  
the Next40, and 4 in the FT120

**Scientific excellence**

**x3,5 on the sales  
revenues of the sector**

From 7,3Md€ to 25Md€

**Build a cyber-minded  
culture**

From 1/3 to 2/3 of SMEs using 3  
protection systems for their IT  
infrastructure

From 20% to 50% of French companies  
with an cybersecurity incident response  
plan

## TRANSLATION INTO 20 MEASURES

### Industry – academia collaborations and support to companies

Measures 1, 6, 9 and 12: tech transfer  
program, critical technologies - 225M€

### Fundamental Research

Measure 4: research program  
65M€

### Training and awareness

Measures 18, 19 and 20: setting  
up tailored curricula - 140M€

### Support to entrepreneurship

Measure 3: design of support structures and  
investment in cybersecurity startups - 20M€ / 200M€



RAPPROCHONS LE  
FUTUR

### Securing local communities

Measure 16 : setting up demonstrators -  
20M€

### Securing state-level digital assets

Measures 14 and 15: ANSSI  
budget - 176M€

### Cyber Data platform

Measure 7: share and monetize data  
of interest - 24M€

### Campus Cyber

Measure 5: creation of a cyber *locus*



# Ten fundamental research and societal challenges

## RESEARCH PROGRAM

1

IPoP

**Personal data protection**  
*Resolving a paradox: an  
information society hungry for  
data but respectful of privacy*

2

Secure  
Compute

**Data processing security**  
*Reconciling mass data  
processing and  
mass data protection*

3

SVP

**Security of protocols and  
electronic voting**  
*Cryptographic protocols with  
security guarantees*

4

DefMal

**Defense against malware**  
*Anticipate, Analyze and  
Predict: Malware*

5

Superviz

**Security supervision and  
orchestration**  
*Detect, respond and repair, as  
automatically as possible*

6

Arsene

**Hardware & software  
security of emb. systems**  
*Solutions for intrinsically secure  
embedded systems*

7

Secureval

**Assessing Software Security**  
*Advancing knowledge of  
program analysis and  
verification techniques*

8

Rev

**Vulnerability analysis**  
*Understanding the Impact of  
vulnerabilities at the scientific,  
technical & legal level*

9

Crypt  
analyse

**Resistance of crypt. systems**  
*Evaluating cryptographic  
primitives*

0

Compro  
mis

**Multimedia data protection**  
*Reinforce the protection and  
intrinsic security of  
dataprocessing models*

Steering by CEA, CNRS & Inria  
Synergies with other national strategies (IA, cloud, quantum)

## TRANSLATION INTO 20 MEASURES

### Industry – academia collaborations and support to companies

27 laureates of the Grand Challenge raised a  
combined 170M€ in funding.

Transfer program launched in Q2 2023

### Fundamental Research

200 scientists rallied, halo effect and  
experimental approaches

### Training and awareness

11 laureates, for a combined  
commitment to train 80 000 cyber  
professionals by 2030

### Support to entrepreneurship

First European incubator dedicated to cyber, 23  
early-stage startups accelerated



RAPPROCHONS LE  
FUTUR

### Securing local communities

3 demonstrators launched in Q4 2024,  
in the health sector

### Securing state-level digital assets

1000 diagnostics + packs programs,  
99% satisfaction, 170 local service  
providers

### Cyber Data Platform

1st use case on Cyber Threat  
Intelligence, aggregation across all  
measures of the strategy

### Campus Cyber

Community of cyber commons,  
international attractiveness, territorial  
extensions



**1. CFP Evaluation – DEVELOPMENT OF INNOVATIVE CYBER TECHNOLOGIES**

<https://www.bpifrance.fr/nos-appels-a-projets-concours/appe-a-projets-developpement-de-technologies-innovantes-critiques>

**2. CFP Attack paths – DATA SHARING AND EXPLOITATION**

<https://www.bpifrance.fr/nos-appels-a-projets-concours/appe-a-projets-mutualisation-et-valorisation-des-donnees-dinteret-cyber>

**3. CFP Collaborative research projects and CFP Transfer projects – TRANSFER PROGRAM**

<https://ptcc.fr/presentation-des-appels-a-projet/>

**4. CFI Season 2 - FUTURE SKILLS AND PROFESSIONS**

<https://anr.fr/fr/detail/call/competences-et-metiers-davenir-cma-appel-a-manifestation-dinteret-2021-2025/>

**5. CFP Build 2024 - CYBERBOOSTER**

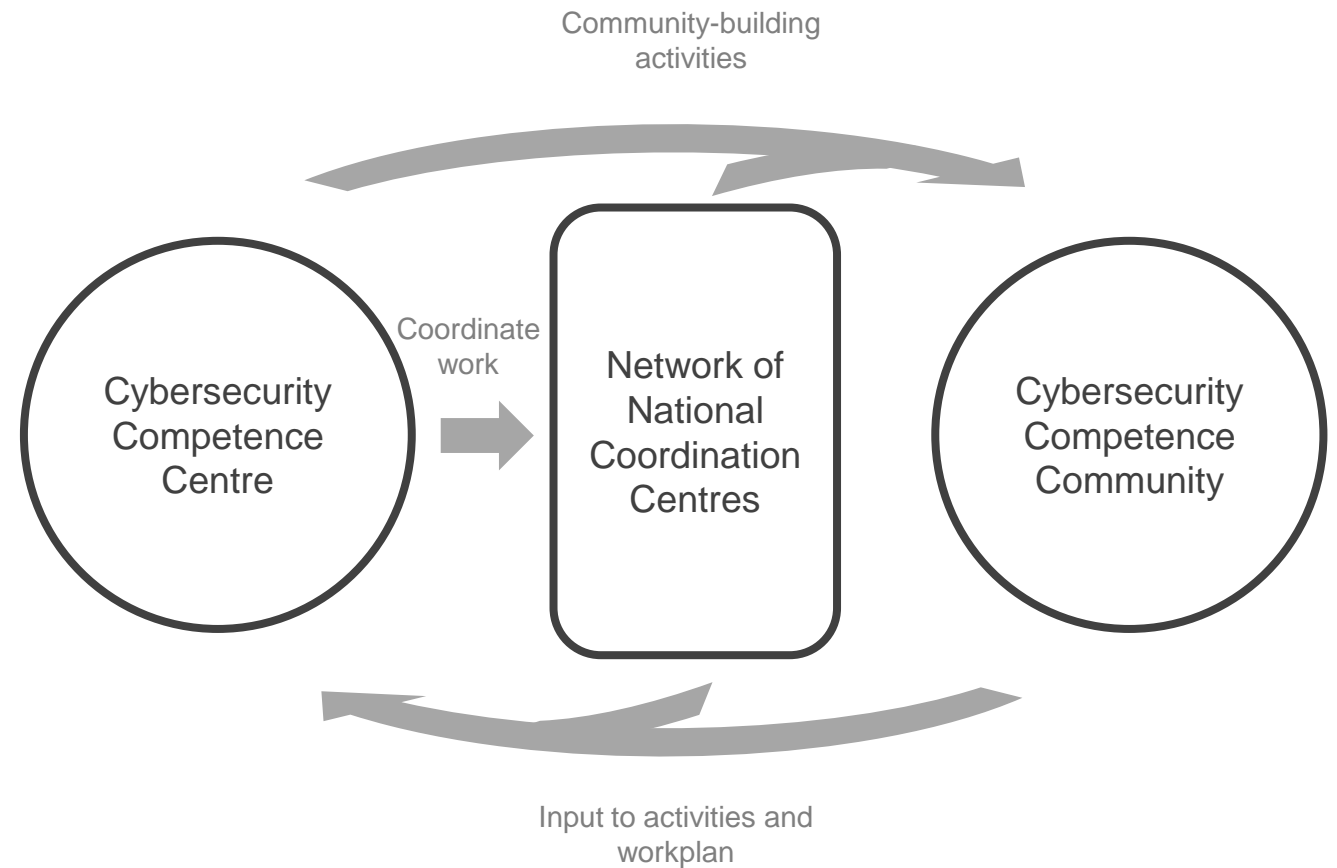
<https://www.cyberbooster.fr/cyber-booster-ouvre-les-portes-de-la-nouvelle-promotion-de-son-programme-dexcellence/>

**6. i-PHD, i-Lab, i-Nov, i-Demo - Wave 12**

# EUROPE – ECCC – NCCs

## REGULATION (COM 2018/0328) INTO FORCE SINCE 06/2021

“Improve cyber capabilities in the EU, inter alia, in terms of scientific and industrial assets, specialised competences and general cyber awareness, and better coordination amongst relevant stakeholders. This implies **setting strategic objectives** for investment, deployment, and use of cybersecurity, while pooling EU and national resources, notably the Digital Europe Program, to deliver on those objectives.





CLOSED	DIGITAL-ECCC-2022-CYBER-B-03-CYBER-RESILIENCE	3,4M
	DIGITAL-ECCC-2022-CYBER-B-03-SOC	26,3M
	DIGITAL-ECCC-2022-CYBER-B-03-UPTAKE-CYBERSOLUTIONS	6,7M
D/L 26/09/23	DIGITAL-ECCC-2023-DEPLOY-CYBER-04-SUPPORT-ASSIST: Preparedness Support and Mutual Assistance	35M
	DIGITAL-ECCC-2023-DEPLOY-CYBER-04-CIVIL-DEFENCE: Coordination Between the Cyber. Civilian and Defence Spheres	3M
	DIGITAL-ECCC-2023-DEPLOY-CYBER-04-STANDARDISATION: Standardisation in the Area of Cybersecurity	3M
	DIGITAL-ECCC-2023-DEPLOY-CYBER-04-EULEGISLATION: Supp. for Implem. of EU Leg. on Cybersecurity and Nat. Cybersecurity Strats.	30M
D/L 22/11/23	EDF-2023-DA-CYBER-CSA: Full-Spectrum Cyber Situational Awareness for enhanced Cyberspace Operations Support	20M
	EDF-2023-DA-CYBER-DAAI: Deployable Autonomous AI Agent	26M
	EDF-2023-RA-SI-CYBER-ASPT: Automation of security penetration tests	14M
D/L 23/11/23	HORIZON-CL3-2023-CS-01: Secure Computing Continuum (IoT, Edge, Cloud, Datascpaces)	28M
	HORIZON-CL3-2023-CS-01 : Privacy-preserving and Identity Technologies	15,7M
	HORIZON-CL3-2023-CS-01 : Security of Robust AI Systems	15M
WP DEP	Pilot for Post Quantum Encryption in Critical Sectors Standardization of Post Quantum Encryption (CSA) SME support / uptake, in preparation of the Cyber Resilience Act (NCC) Novel applications of AI and Key Digital Technologies for Cybersecurity	84M

# OBSERVE x PLAN AHEAD

## PROSPECTIVE WORKING GROUP

Mapping and technological watch

Cybersecurity  
positions and skills  
observatory

Measure 18

Structured vision of the  
cybersecurity industry

Benefitting from and enriching the  
strategic cyber review

Watch on emerging  
topics

Research and critical  
technologies program  
orientations

Bespoke curricula

Measures 19 et 20

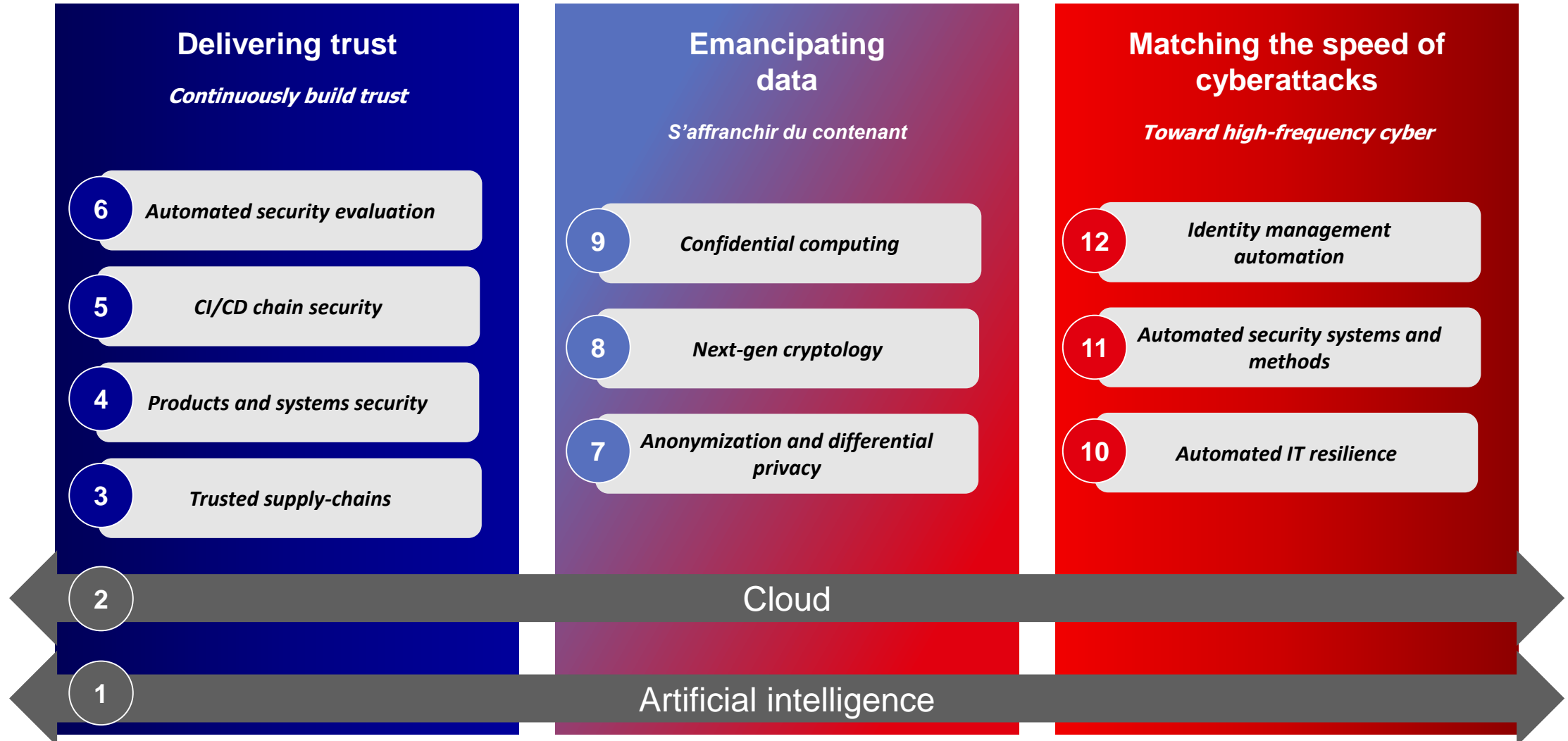
Datamining

Benefitting from and enriching the  
strategic cyber review

Indicators and trends

Trajectory toward set objectives

**Cumulative structural evolutions (technological, regulatory, geopolitical, ...) generating new challenges, with major impacts across all cyber practices**





# Contacts and information

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