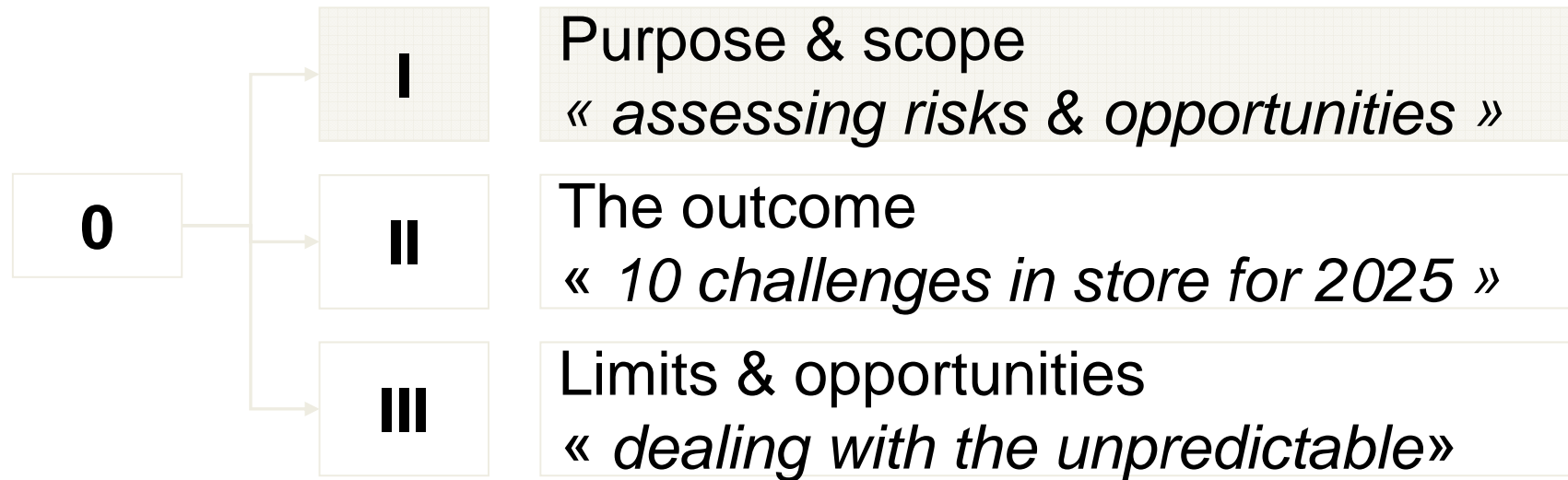




The “France 2025” Foresight Project

French- Russian Conference
Economie, politique et société: nouveaux défis et perspectives
Economics of S&T and innovation section
Session 2-Foresight





Purpose and scope

« Provide [the French government with] a strategic assessment of the next 15 years : determine the future trends at play both at a global and national level, analyse their impacts on the French social and economy framework and identify the country abilities and weaknesses in seizing opportunities and dealing with risks. »

*Mission statement from the French Prime Minister to the Secretary of State
in charge of Strategic Planning & Public Policy Evaluation
April 2008*

The process

18 months, 3 outputs



<p>1 Europe - Mondialisation</p> <p>FRANCE 2025</p> <p>1.1. Deux scénarios pour le monde à l'horizon 2025</p> <p>1.2. La nouvelle trajectoire des cultures</p> <p>1.3. Les changements de système productif à l'aune de la mondialisation</p> <p>1.4. La transition sociale et écologique de la mondialisation</p> <p>1.5. Le financement de la croissance mondiale</p> <p>Annexe - le modèle MIRAGE</p> <p>Composition du groupe de travail « Europe - Mondialisation »</p>	1	<p>2 Ressources rares et environnement</p> <p>FRANCE 2025</p> <p>2.1. Energie et changement climatique</p> <p>2.2. L'agriculture française en 2025 - produire en respectant mieux l'environnement</p> <p>2.3. L'agriculture française en 2025 - produire en respectant mieux l'environnement</p> <p>2.4. Le bioéconomie - une richesse indissociable à la vie, menacée par le développement économique</p> <p>Composition du groupe de travail « Ressources rares et environnement »</p>	2
<p>3 Technologies et vie quotidienne</p> <p>FRANCE 2025</p> <p>Introduction</p> <p>Tendances de fond</p> <p>Les technologies en France - quatre scénarios possibles pour 2025</p> <p>Les grands faits technologiques - 2025 est un horizon prospectif</p> <p>3.1. Vie domestique</p> <p>3.2. Education, santé et culture</p> <p>3.3. Transports, ville et travail</p> <p>3.4. Administration</p> <p>3.5. Santé</p> <p>Questions éthiques</p> <p>Innovations et usages</p> <p>Conclusion</p> <p>Lexique</p> <p>Composition du groupe de travail « Technologies et vie quotidienne »</p>	3	<p>4 Production et emploi</p> <p>FRANCE 2025</p> <p>Introduction</p> <p>4.1. Qu'est-ce qu'un emploi ?</p> <p>4.2. Comment ?</p> <p>Composition du groupe de travail « Production et emploi »</p>	4
<p>5 Création, recherche et innovation</p> <p>FRANCE 2025</p> <p>5.1. Les grandes tendances de la recherche et de l'innovation à l'horizon 2025</p> <p>5.2. Les industries à l'horizon 2025</p> <p>5.3. Les enjeux pour la France à l'horizon 2025</p> <p>Composition du groupe de travail « Création, recherche et innovation »</p>	5	<p>6 Risques et protection</p> <p>FRANCE 2025</p> <p>6.1. Évaluation des systèmes de protection en 2025</p> <p>6.2. Prospective des risques à l'horizon 2025</p> <p>6.3. Prospective des modes de protection en 2025</p> <p>Composition du groupe de travail « Risques et protection »</p>	6
<p>7 Vivre ensemble</p> <p>FRANCE 2025</p> <p>7.1. Vivre ensemble - le modèle européen à l'horizon 2025</p> <p>7.2. Vivre ensemble - le modèle national à l'horizon 2025</p> <p>7.3. Vivre ensemble - le modèle socio-culturel à l'horizon 2025</p> <p>Conclusion - Vivre ensemble, trois scénarios vers 2025</p> <p>Composition du groupe de travail « Vivre ensemble »</p>	7	<p>8 État, action publique et services publics</p> <p>FRANCE 2025</p> <p>8.1. Où attendra-t-on de l'action publique en 2025 ?</p> <p>8.2. Qu'est-ce qui ? Organisation et répartition des compétences</p> <p>8.3. De quelle manière ? Modalités de l'action publique</p> <p>Conclusion - Composition du groupe de travail « État, action publique et services publics »</p>	8

Paris, le 23 mars 2009
Prémier ministre
 Avertissement
 par René Sève,
 Directeur général du Centre d'analyse stratégique

Le Centre d'analyse stratégique met aujourd'hui en ligne les travaux des huit groupes de travail de l'exercice « France 2025 », qui avait débuté, le 22 avril 2008, à la demande du Premier Ministre, M. Éric Besson, alors Secrétaire d'État à la Prospective, à l'Évaluation des Politiques Publiques et au Développement de l'économie numérique, et dont il a publié, en janvier dernier, une synthèse, ou plus exactement une « lettre », dans son ouvrage *Dieu dit pour la France*¹. Ce texte décrit également, dans son préambule, l'organisation retenue pour « France 2025 » et rappelle son objectif : « susciter des débats utiles qui pourront éclairer des décisions futures »².

À ces huit fascicules, vous ajoutez ici, conformément à l'engagement souscrit par le Ministre, les contributions volontaires des partenaires sociaux qui participent à la « commission plénière »³.

Les lignes qui suivent ne se sont soulevées qu'après l'attention d'

ÉRIC BESSON

1 Cf. Synthèse p. 3
 2 Cf. www.strategie.gouv.fr
 3 Ce texte est également dans son volume complémentaire, *Stratégiques*.

JANVIER 2009
FRANCE 2025
 DIAGNOSTIC STRATEGIQUE
 >>> Dix défis pour la France

Stage 1

Stage 2

Stage 3

8 taskforces

1. Europe & Globalization

2. Scarce resources management

3. Technology impact on daily life

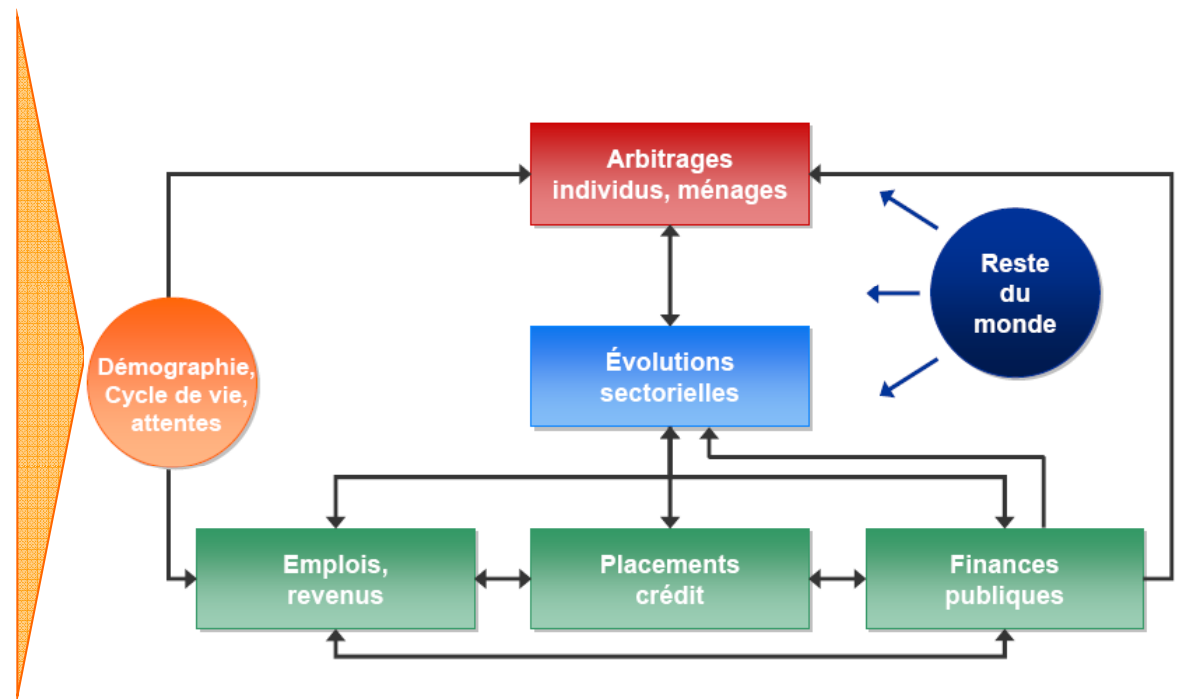
6. Social protection against new risks

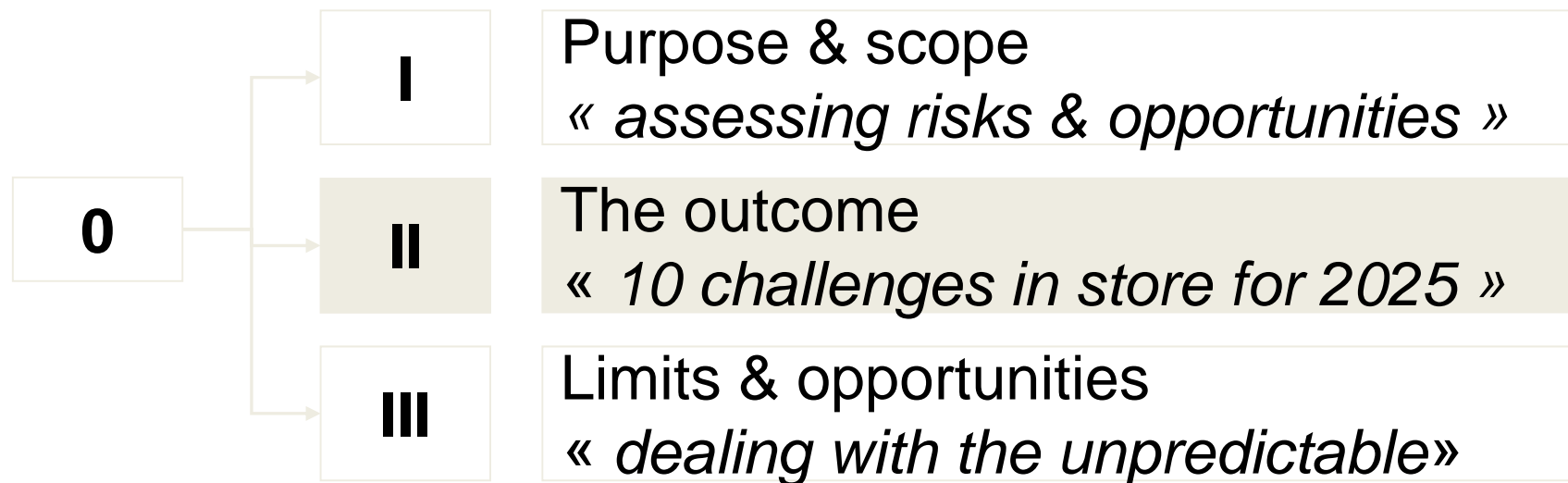
4. National productive system

5. National R&D and innovation potential

7. Social solidarity

8. Public services evolution







Outcome

« 10 challenges in store for 2025 »

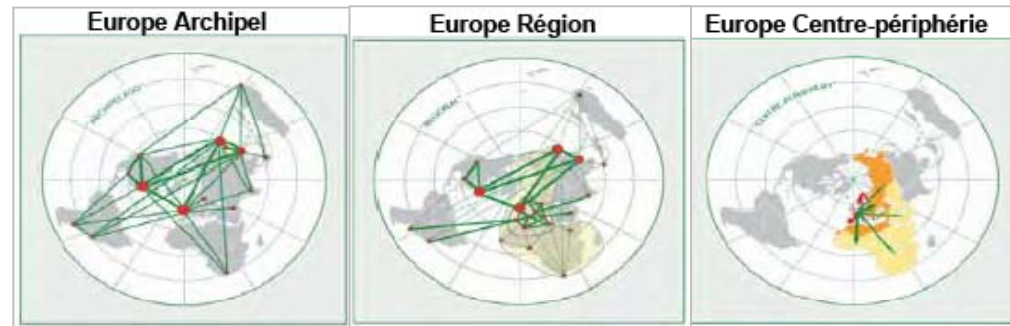
Outcome

« 10 challenges in store for 2025 »

- 1- FIND THE KEYS TO GLOBAL STABILITY
- 2- ASSERT THE EUROPEAN 'SOFT POWER'**
- 3- ENGAGE IN A SUSTAINABLE DEVELOPMENT**
- 4- RECONCILE EMPLOYMENT WITH SELF-FULFILLMENT IN THE MARKETPLACE**
- 5- ENHANCE NATIONAL COMPETITIVENESS AND ATTRACTIVENESS
- 6- BET ON 'CULTURAL CREATIVES' TO FOSTER INNOVATION**
- 7- ENHANCE SOCIAL COHESION AGAINST NEW RISKS
- 8- UPDATE THE DEMOCRATIC SYSTEM WHILE RESPECTING INDIVIDUAL FREEDOM**
- 9- DEEPEN THE SOCIAL INSERTION DYNAMICS
- 10- ADAPT PUBLIC SERVICES

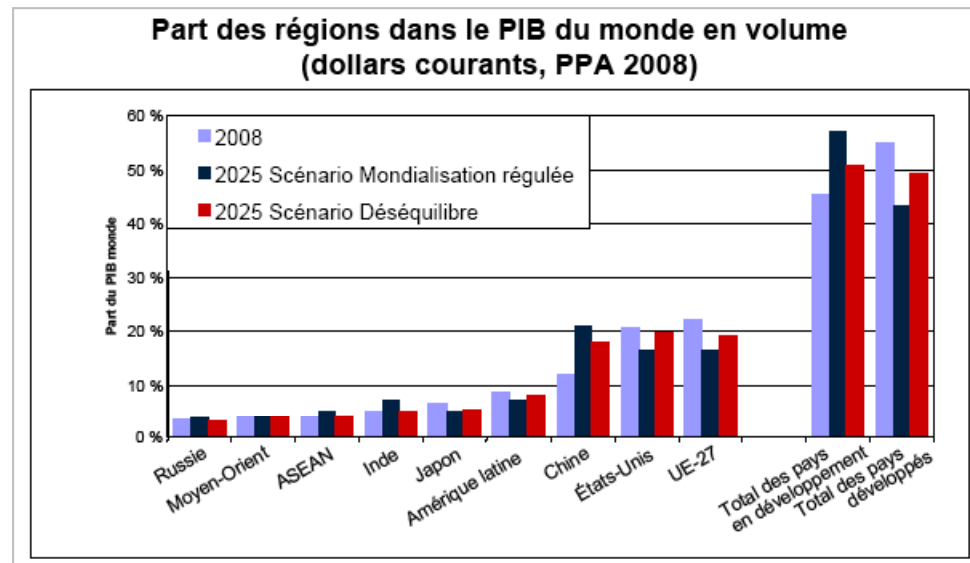
« 10 challenges in store for 2025 »
Challenge n.2
ASSERT THE EUROPEAN 'SOFT POWER'

1. A « smaller » Europe



Long-term trends

2. New regional centres: rising Asia, uncertain Africa



« 10 challenges in store for 2025 »

Challenge n.2

ASSERT THE EUROPEAN 'SOFT POWER'

Political options

1. Rely on EU soft power to influence global policy

➤ *leader market in 2025*

➤ *Norms & standards diffusion as a lever : GSM, REACH, GHG & RNW targets*

2. Preserve the EURO area integrity

3. Increase the EU budget

➤ *investment needed*

« 10 challenges in store for 2025 »

Challenge n.3

ENGAGE IN A SUSTAINABLE DEVELOPMENT

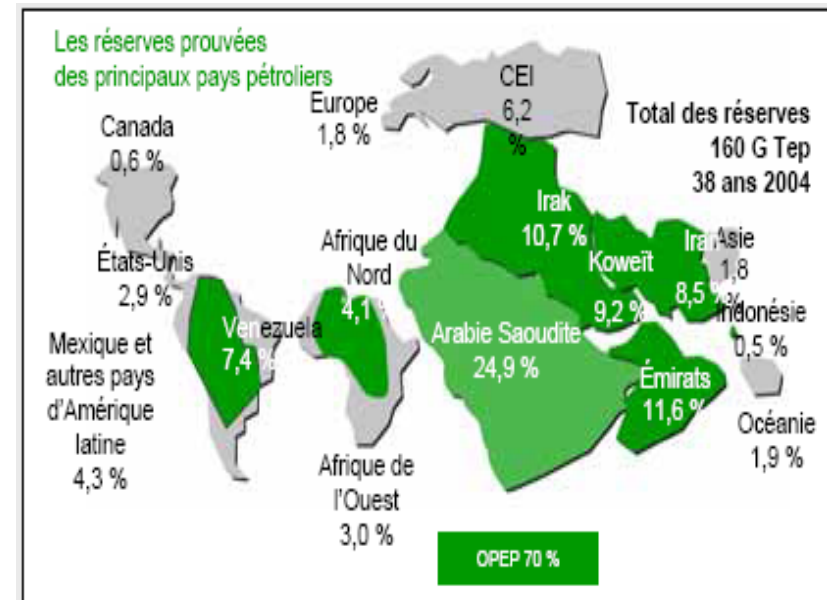
1. Climate change : the 2°C threshold triggers on new risks

➤ 5% healthcare costs in OECD attributed to environmental degradation

1. The end of the petrol era?

➤ potential reserves vs low price/low investment dynamics

Long-term trends


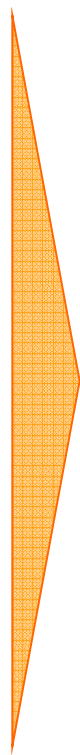


« 10 challenges in store for 2025 »

Challenge n.3

ENGAGE IN A SUSTAINABLE DEVELOPMENT

Political options

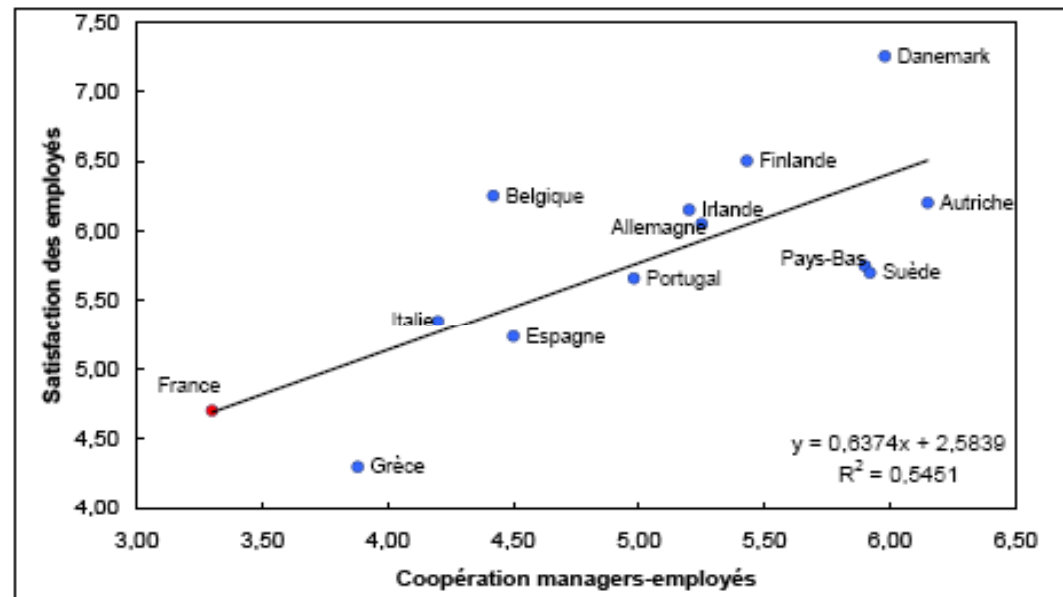
- 
- 
1. Higher oil prices will NOT solve climate change:
 - *coal substitute for electricity production*
 - *Aggravates social inequalities/ resistance to carbon tax*
 2. Need for global regulation
 - *EU ETS as a model*
 4. Technological progress crucial but not enough
 - *Green techs needed (energy efficiency) counterweighted by rebound effect*
 - *Reorient consumer habits*

« 10 challenges in store for 2025 »
Challenge n.4

RECONCILE EMPLOYMENT WITH SELF-FULFILLEMENT IN THE FRENCH MARKETPLACE

1. Bottom-up orientation of production: toward a services economy?
2. Trust gap between French employers & workers

Long-term trends



3. Greater production flexibility might impact workers' welfare

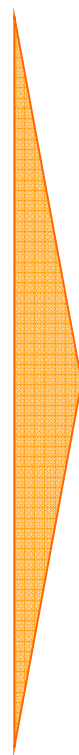
« 10 challenges in store for 2025 »

Challenge n.4

RECONCILE EMPLOYMENT WITH SELF-FULFILLEMENT IN THE FRENCH MARKETPLACE



Political options



1. Invest in human capital

- *Merge work & formation periods*
- *Promote professional orientation rather than selection (new agency)*
- *Increase students & senior workers employment*
- *Foster diversity in the workplace*

2. Seize ICT opportunities (productivity)

- *Broadband network & user training*

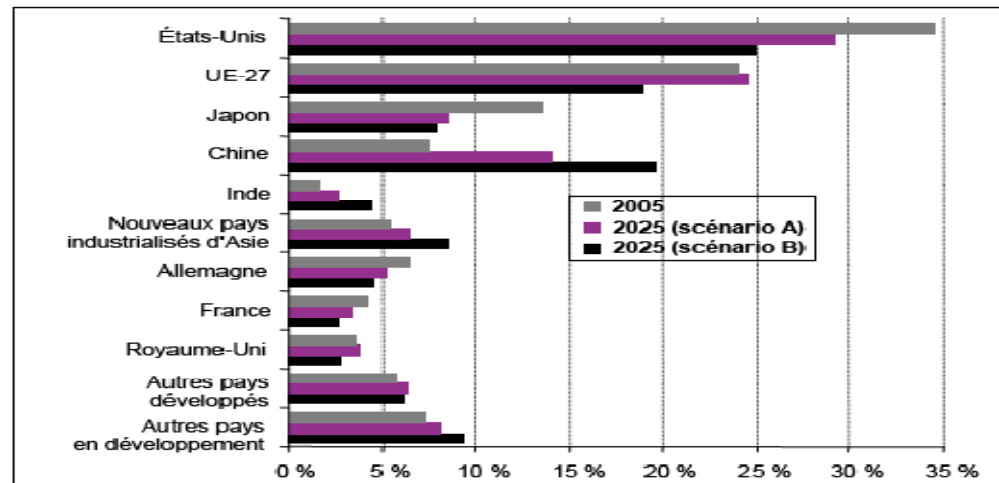
« 10 challenges in store for 2025 »

Challenge n.6

BET ON 'CULTURAL CREATIVES' TO FOSTER INNOVATION

1. New Asian gravity center: 20% global R&D

Le poids relatif des pays dans l'investissement mondial en R & D :
Évolution 2005-2025 selon deux scénarios contrastés



Long-term trends

2. The era of cloud computing : diffusion of technology-intensive products in daily life

➤ *energy/environnement, nanotechs, biotechs, ITC*

2. Risk of counter reaction to progress

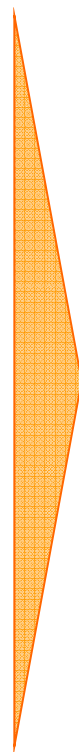
« 10 challenges in store for 2025 »

Challenge n.6

BET ON 'CULTURAL CREATIVES' TO FOSTER INNOVATION



Political options



1. Anticipate the new deal

➤ *produce, don't consume*

2. Encourage the nascent 'creative class'

➤ *Global trend : individuals fostering innovation*

3. Tap in the digital economy opportunity

➤ *address access inequalities*

UPDATE THE DEMOCRATIC SYSTEM WHILE RESPECTING INDIVIDUAL FREEDOM



Long-term trends



1. The drawbacks of ICT transparency

- *From e-ID to genomic-ID*
- *Intelligent objects giving away data*

2. The Orwellian temptation

- *Real-time monitoring allows for instant discrimination (security, health...)*

3. Signs of a weakening democracy

- *Decrease in election participation & syndical adhesion rate*

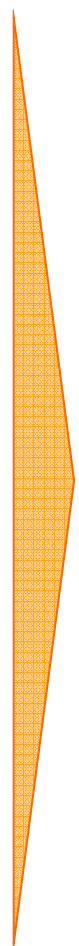
« 10 challenges in store for 2025 »

Challenge n.8

UPDATE THE DEMOCRATIC SYSTEM WHILE RESPECTING INDIVIDUAL FREEDOM



Political options



1. Establish the right to 'silence the chips'
 - *Control surrounding RFID to preserve social cohesion & State legitimacy*

2. State clear responsibilities in Public/Private partnerships
 - *OK if proven benefits in security and insurance areas*

3. Update institutions
 - *Foreigners' right to vote in local elections ?*
 - *Integrate family evolution in social security scheme*

« 10 challenges in store for 2025 »

Challenge n.1

FIND THE KEYS TO GLOBAL STABILITY

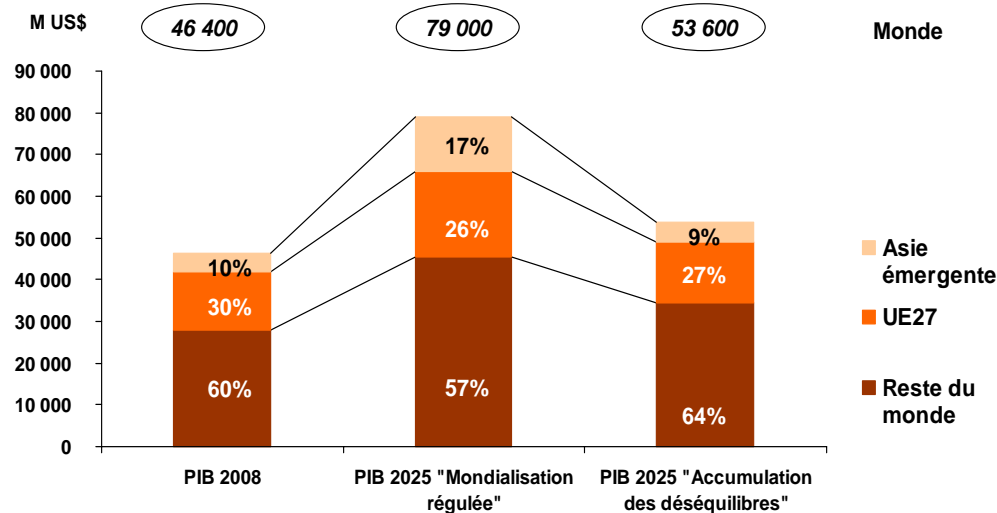
Long-term trends

1. Rise of potential bilateral conflicts
2. Toward a non-polar world
3. Migrations increase

Political options

1. European diplomatic strategy aimed at preventing the 'clash of civilisations'
 - Go beyond economy interests
2. Extend & deepen global regulation
 - « Invisible hand' has proved insufficient
 - need for international management of finance & environment crisis

TWO SCENARIOS FOR THE EVOLUTION OF GDP AT A GLOBAL, UE27 & EMERGING ASIA LEVEL.



Source : Cepii, calculs Centre d'analyse stratégique

Stake: +/- 1% global GDP

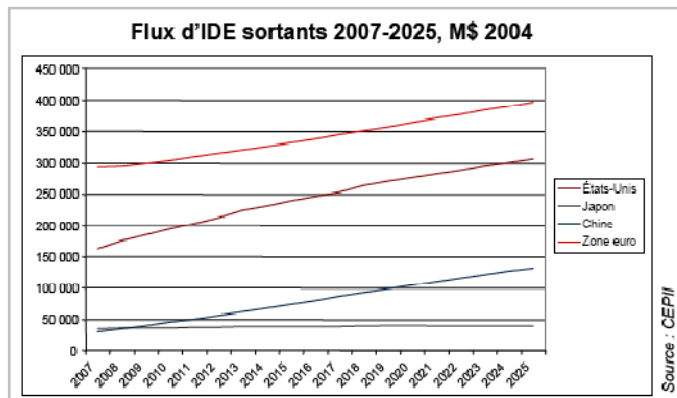
« 10 challenges in store for 2025 »

Challenge n.5

ENHANCE THE NATIONAL COMPETITIVENESS AND ATTRACTIVENESS

Long-term trends

1. An emerging 'middle class' (World Bank: 30% global population 2030)
 - BRICS as new markets for French exporters...
 - ...& direct threat to OECD capital attractiveness (savings potential)



2. French SMEs are too small: 80% of exporters but 15% of exports value

Political options

1. Sustain SMEs growth
 - Payment delays, access to banks financing...
2. Preserve national attractiveness
 - Promote EU fiscal harmonization
3. Change employment policy strategy
 - Focus on reemployment rather than employment assistance
 - Increase lifelong learning
 - Anticipate marketplace needs

ENHANCE SOCIAL COHESION AGAINST NEW RISKS

Long-term trends

1. More risks, more costs

- *historical (health, pensions...) + new risks (environment, ageing society...)*

2. Growing risk individualization

- *genetics & nanotechs implications: early diagnosis vs discrimination threat*

3. Looming clash between generations

Political options

1. Impose a 'veil of ignorance' on intimate individual information

2. Poll the citizens' trust in institutions & society

3. Monitor closely the evolution of social equity

4. Renovate the social security scheme

DEEPEN THE SOCIAL INSERTION DYNAMICS



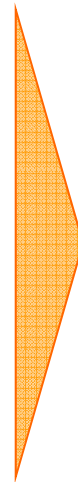
Long-term trends

1. The illusion of virtual mobility

- *ICT speed vs social immobilism*

2. A new kind of social divide

- *centre gentrification+suburbia extension+ suburb exclusion= a 3 face city*



Political options

1. Invest again inequalities

- *Public structures for 0-6 year children*

2. Renew the social contract

- *Foster adhesion by reducing the administration complexity*

« 10 challenges in store for 2025 »

Challenge n.10

ADAPT PUBLIC SERVICES

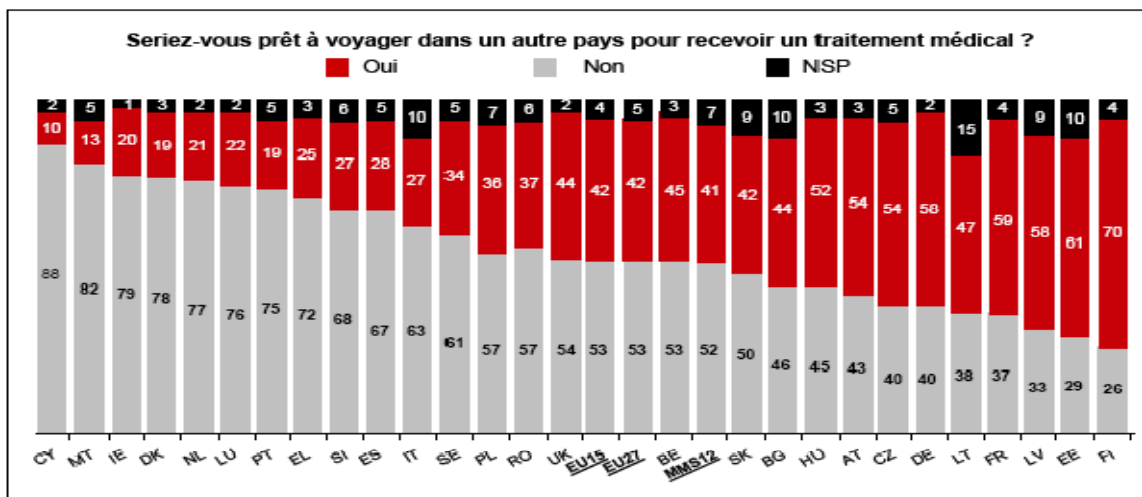
Long-term trends

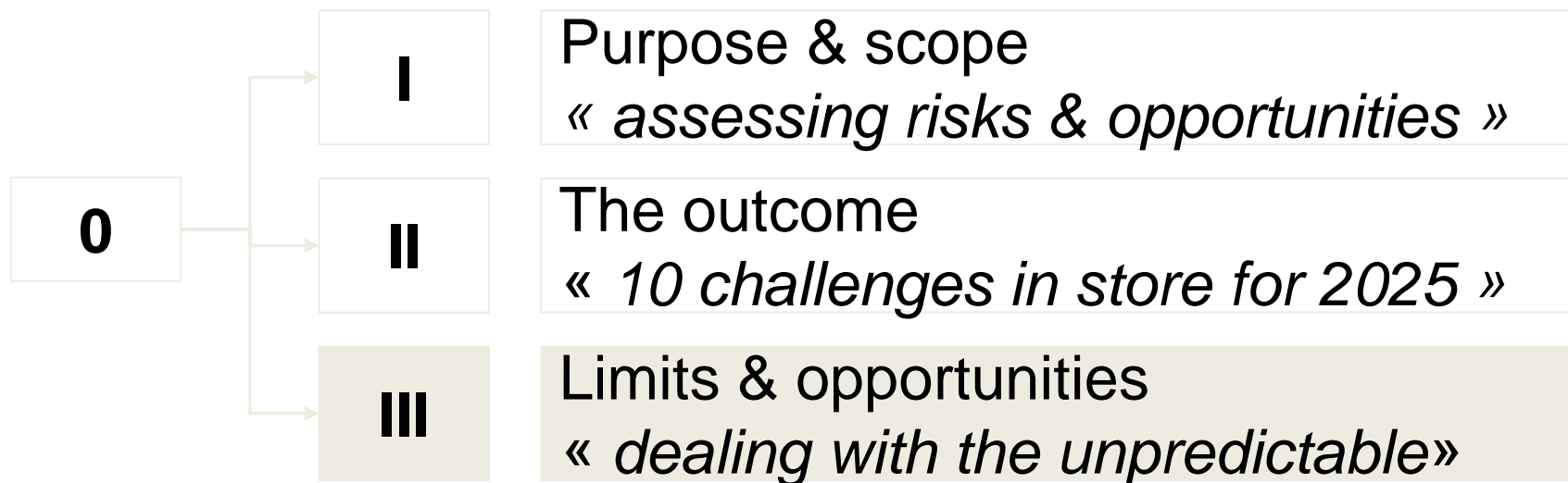
1. Evolution of the public action scope
 - Enters finance, leaves bets and lottery
2. Evolution of the intervention mode
 - Velib' s concession to private actor. A model for public internet access?
3. Public services globalization (healthcare)

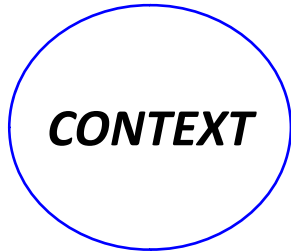
Political options

1. Reflect on the public service purpose
2. Enhance evaluation
 - From a means evaluation to a performance evaluation
 - how long before a policeman intervenes? Before you find a compatible work?

Un fort potentiel de croissance du tourisme médical en Europe



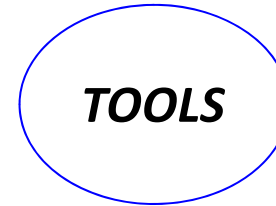




*The economic crisis
LB bankruptcy*

*Copenhagen
outcome*

*Econometric
model
adaptation*



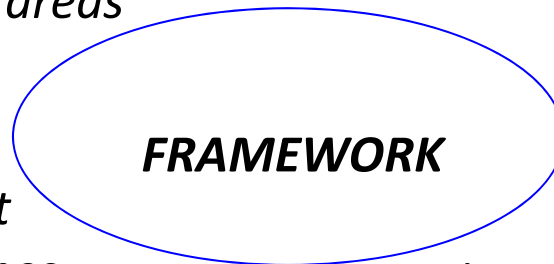
*Scenarios:
the 'fortune
teller'
mistake*

*Quantitative
vs qualitative
projections*

Limitations

*Untackled
areas*

*2025 time
constraint*



*Tight
deadlines*

*Ambitious
scope*

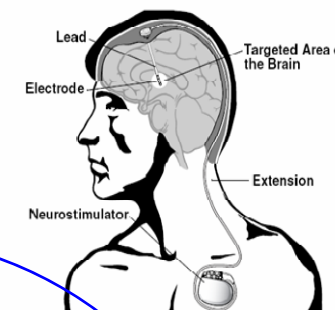
Beyond France 2025

New leads for investigation and new horizons for policy elaboration



Digital economy

Cognitive science learning



Global 'land grab' and food security

Sustainable consumption & behavioural economics

Climate refugees legal status

Trajectories that go down the social ladder

Dynamics & needs of an ageing society

Climate change negotiation strategies

'green growth' and the housing sector



Thank you!