

# The national strategy for research and innovation in France (SNRI) 2009-2012

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# 1 Project

# State-of-play (1)

## 1.1

- France: 5-6<sup>th</sup> in the S&T publication rankings, 4<sup>th</sup> rank for attractiveness of higher education
- First S&T partners (publications) : USA, United Kingdom, Germany; France is oriented towards Europe.
- Very good reputation in fundamental sciences (maths, physics, archeology...)
- Long-term strategic orientations : nuclear energy, space, transport, defence, agriculture

# State-of-play (2)

## 1.2

- ❏ Difficulties to seize innovation sectors (biotechs, ICT, ...)
- ❏ A public system lacking readability and good governance
- ❏ Universities with limited competencies
- ❏ Lack of connection between economy and research
- ❏ Lack of dialogue with society

## 1.3

- To define big orientations for France
  - To push the frontiers of knowledge
  - To answer a demanding society
  - To address environmental urgency
  - To support the national economy
- To identify key technologies
- To put again science in the center of the society

# 2

## Method

- Governmental project (Ministry of higher education and research in collaboration with other ministries)
- Deliverable: Publication of a strategic report
  - Big challenges identified by a steering committee
  - For the next 4-5 years
  - Description, strategic analysis, proposals about actions (same budget)
- Principle: Recognized autonomy and responsibility of the French research actors (« orientation » level)

- Consultation process involving about 600 people (ministries, scientists, big companies, SMEs, associations)
- Organisation: A steering group, a task force, one expert group for each identified challenge with one rapporteur
  - Thematic: Life sciences, Environmental sciences, Materials, ICT/high performance computing/math, Human being and society towards global challenges
  - Transversal: ERA, international position of French research, Innovation ecosystem, Science and society



# Steps

## 2.3

- Identification of societal, knowledge and transversal challenges: validated by all ministries
- State-of-play
- Strategic reflection
- Synthesis
  - ➔ Dialogue between the experts in the working groups
  - ➔ Dialogue between the expert group and the steering committee
  - ➔ Dialogue between the steering committee and the cabinet
- Public consultation (Internet)
- Publication
- Presentation to the government

# State-of-play and strategy

## 2.3

### State-of-play: a SWOT analysis

- based on a shared diagnostic of strengths/assets and weaknesses of French public and private research
- identifying scientific issues and opportunities
- economic and regional dimension
- national, European and international level

based on qualitative and quantitative indicators (e.g. patents, bibliometrics), an analysis of national and European policies (incentives, legal framework)

### Strategy

- Reports including OECD, IPCC, FAO, Millenium Ecosystem Assessment
- Identification of last evolutions, potential incertainties and breakthroughs

# Report

## 2.3

- A general report: synthesis
- A report for each working group

# 3

## Results

- Integration in a world system
- Construction of the European Research area
- Promote basic research and multidisciplinary – major role of SSH
- Open research to society and economy, control risks and enhance security
- Create a favourable innovation environment

## 3 priority areas

# 3.2

- Health, care, nutrition
- Environmental urgency
- Information, communication

At the core of emerging technologies *biotechnologies, green technologies, nanotechnologies*

# 4

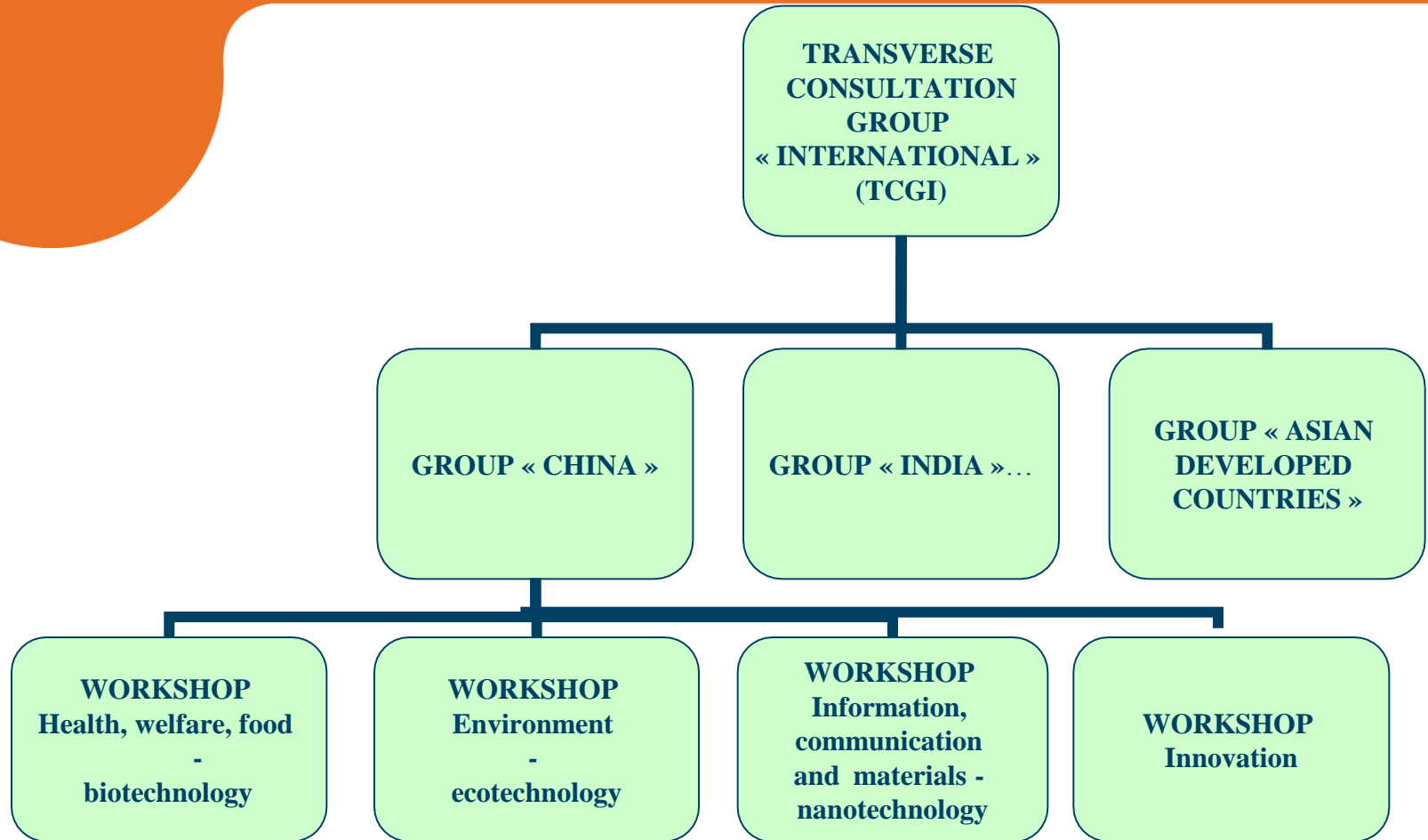
## Implementation An example: the international strategy

## 4.1

- A strategy which has to be set up and evaluated (realisation and impact)
- A strategy which continuously changes to face new societal and scientific challenges



# A consultation structure for implementation



## 4.3

- To build a consensus between the research actors, whose mission would be eventually to concretise the recommendations issued by the consultation structure
- To define the French strategy of cooperation with the targeted country: the basis for the French position in the scientific cooperation discussions with this country

2 steps

# 4.4

- Diagnostic of the S&T cooperation between France and the targeted country
- Strategic orientation plan

with deliverable for each step

# Diagnostic of the S&T cooperation between France and the targeted country

## 4.5

- S&T strategy of both, the targeted country and France
- Analysis of the research and innovation system and the performance in the two countries
- State-of-play of current projects and cooperation instruments
- SWOT analysis of the S&T cooperation between the two countries

## 4.6

- General recommendations
- Thematic priorities and relevant cooperation instruments for each priority

- Bibliometrics
- An inventory of current research projects between France and the targeted country, based on a survey among French performing research organisations and universities
- Documents (reports, articles, notes of the embassy...)
- Hearing of experts
- A sharepoint

Now

4.8

## Preparation of SNRI 2





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