



30th Deufrako anniversary

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2005/2006: a law for improving the French Research and Innovation system

5 major objectives

- Offer stimulating careers to young scientists
- Set up an efficient system for research evaluation
- Intensify cooperation between public research and private research
- Increase European and international partnerships
- Increase efficiency and define strategic priorities

ANR organization

➤ **A public organization**

devoted to competitive project funding
in both basic and applied research
on the basis of international standards

➤ **Objectives:**

- ✓ Promote creativity
- ✓ Bring more flexibility and, subsequently, reactivity
- ✓ Increase competitiveness while keeping a good balance between basic and applied research

➤ **Budget 2008: 896 M€**

➤ **Since 2005 about 1500 projects funded each year**

ANR Organization

➤ **7 scientific departments :**

- a non thematic department
- 6 Thematic departments:
 - Biology and health
 - ICT and nanotechnologies
 - Sustainable energy and environment
 - Ecosystems and sustainable development
 - Process and engineering
 - Human and social sciences

➤ **A transverse department:**

« Competitiveness and partnerships »

Projects: selection and funding

- 3 types of research projects
 - basic research
 - industrial research
 - pre-competitive development

- 2 types of consortia
academics or public-private partnerships

- Peer review evaluation of projects

- Funding:
 - 100% of additional cost for public research teams

 - 25 to 75% of total cost (depending of the type of research and size of enterprise) for industry

2008 Keys figures

48 open calls

- 5882 proposals submitted
- ~1250 funded projects

- Average success rate :21%
- Average project funding
 - « academic projects »: 400K€ for 2.5 partners
 - « public-private partnership »: 750k€ for 4 to 5 partners

- Non thematic transverse programme: **M€ 167**

2008 Programme and provisional budget

**ENERGY
ENVIRONMENT
M€ 111**

- New energy technologies
 - Urban engineering
- Climate change and CCS
- Ecotechnologies

**ECOSYSTEMS
M€ 66**

- Biodiversity
- Food science & human nutrition
 - Genomics
- Agriculture for a sustainable development

**ITC
M€ 140**

- Telecommunications
- Software technology
- Audiovisual & Multimedia
 - Robotics
- Nanosciences

**PROCESS &
ENGINEERING
M€ 46**

- «Green» chemistry
- Materials & processes
- Global security

**HUMAN
& SOCIAL SCIENCES
M€ 15**

- Creation
- Government & administration
 - Social vulnerability
- Communication

**BIOLOGY-HEALTH
M€ 119,5**

- Neurosciences
- Physiopathology/human diseases
 - Microbiology
- Biotechnology

ANR strategy in the field of Transport

ANR strategy in the field of Transport

- Target 1: CO₂ free energy production
 - Develop new technologies for energy CO₂ free energy for transport and reduce environmental impacts especially: global warming, air pollution, noise emission in urban areas
- Target 2: Vehicles' energy efficiency
 - Increase vehicles' efficiency to reduce fuel consumption and hydrocarbon dependency
- Target 3: Transport usages' efficiency
 - Increase efficiency and quality of transport including road and rail safety, security of passenger and goods, reliability, homeland and infrastructure security
 - Develop mobility especially in urban areas

ANR Programmes implementing transport strategy

CO₂ free Energy production

Bio-energy

Energy storage

Hydrogen & Fuel Cells

Vehicles' energy efficiency

Land Transport Vehicles
 Clean vehicles

Transport Usages' efficiency

Sustainable cities

Homeland security

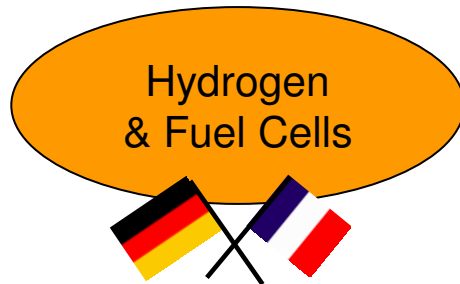
Land Transport Vehicles
 Safety, Quality and reliability

Transversal approach

Carnot and Fraunhofer Institutes

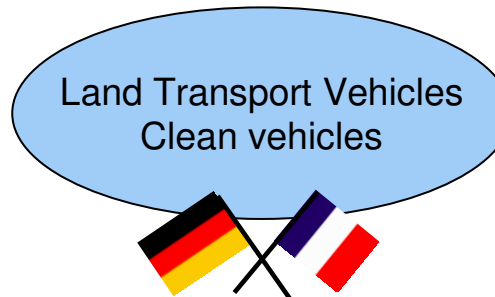
Transport related programmes in cooperation with Germany

CO2 free Energy production



French Call open to
German partners

Vehicles' energy efficiency

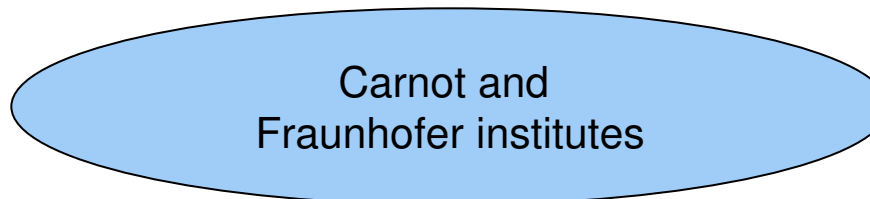


Since 2005 co funded BMWI / ANR project

Transport Usages' efficiency



Transversal approach



In 2008 MoU between
BMBF/ANR

Focus on: Carnot and Fraunhofer Institutes programme

Goals:

- Strengthen the cooperation between German and French public research community (Research Technology organization RTO)
- Achieve world class scientific and technologic results
- 3 years programme financed by BMBF and ANR for consortia between FhG and IC

Topics:

- Sustainable energy
- Environment
- Transport
- Health
- ICT
- Civil security



Fraunhofer Gesellschaft

First Call in November 2008

Focus on Hydrogen and Fuel cells programme « H PAC »

Goals:

- The mid-term priority is to develop the fuel cell technologies for new markets that could be commercially initiated in the domain of stationary applications: cogeneration, emergency units, collective transportation.
- The long term priority is to contribute to the development of innovative fuel cell technologies for automobile applications.

Example of French an German project :

MDM:

The goal of the project is to increase PEMFC (proton exchange membrane fuel cell) reliability and Mean Time Between Failure (> 5000 hours) to prepare industrial development for automotive industry.

Partners: France AXANE, INPG,CNRS Germany SOLVICORE GMBH & CO. KG

Funding: ANR & BMWI: 1,7 M€ in 2007

Lenght: 36 months



Focus on Land Transport Vehicles programme: "LTV"

Goals:

- Reduce environmental impact : global warming, air pollutants, noise
- Increase mobility, safety and security for persons and goods

Example of French and German project :

ROSA « Rail optimization Safety Analysis »

The goal is to establish a software able to determine global risk analysis for German and French rail network in implementing a specific software

Partners: France: SNCF Germany: DB-INRETS-TUD

Funding : ANR : 424k€ BMWI : 613k€



Length: 33 months

Thank You for your attention

