Research programme at Anses

National Programme
« Occupational and environmental health and safety »

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ANSES contributes to ensuring:
• human health and safety in the fields of environment, work and food
As well as:
• protecting animal health and welfare
• protecting plant health

About 1340 staff including:
• Risk assessment: 28 %
• Research and reference activity: 59%
• Others: 13%
From knowledge creation to risk management
Collective expertise: Risk and radiofrequency

- Risk evaluation from existing data periodically updated: 2003, 2005 and 2009

- Analysis of literature (for instance 228 articles related to biological effects for f>400 MHz) including
  - Analysis of methodology
  - Reproducibility of results
  - A specific section for EHS

- In 2011, Anses set a working group to update risk evaluation. The report expected in 2013.
PNR EST: Goals and specificity

Funding: (presently 5-6 M€/an)
- Ministry for ecology and sustainable development and ministry for labour
- Ministry for agriculture (antimicrobial resistance)
- Ademe (since 2009), Inca → ITMO-cancer (since 2010)
- ONEMA (Pesticides)
- Tax on radiofrequency emitters (since 2011)

Specificities:
- Reinforce links between research and expertise (open to foreign teams)
- Knowledge production in relation with risk assessment
- Close to policy makers (« questions to research

Project selection
- Two stages (letter of intent and full project)
- Project selection by scientific committee /reviewers and steering committee
247 FUNDED PROJECT SINCE 2006

- Chemicals: 28%
- Biological agents: 18%
- Nanomatérials: 10%
- Radiofréquences: 5% (since 2011)
PNR EST: 2012 call

All projects

- 198 letters of intent
- 100 selected for full projects → 96 submitted
  - 10 feasibility studies (average 41 k€)
  - 85 project (average 195 k€) plus one large project à 3,8 M€
- 54 ranked A (excellent) or B (good) by the scientific committee
- 31 projects selected for funding (5,8 M€)

RF

- 22 letters of intent
- 14 selected for full projects → 14 submitted
- 9 ranked A (excellent) or B (good) by the scientific committee
- 6 projects selected for funding (1,7 M€)
### PNR EST: Topics

<table>
<thead>
<tr>
<th>Topic</th>
<th>2011</th>
<th>2012</th>
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</thead>
<tbody>
<tr>
<td>In vitro and in vivo studies</td>
<td>EPSI 3.5 ReproRF</td>
<td>MARFEM OMCell INFLAREF</td>
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<td>New approaches to investigate EHS</td>
<td>HSEM sensi</td>
<td>none</td>
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<td>Epidemiological studies</td>
<td>Feasibility of Cosmos</td>
<td>RFExpo-ELFE</td>
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<td>Metrology</td>
<td>none</td>
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<td>Characterization of exposures</td>
<td>DICER Mobi-Expo</td>
<td>ACTe EXPO@LYON</td>
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<tr>
<td>Humanities and social sciences</td>
<td>none</td>
<td>none</td>
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</tbody>
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2009 working group report page 17:
“However the public controversy over radio frequencies cannot be reduced to a gap between scientific risk assessment and a "perceived risk", which is in turn measured by opinion polls. It involves different groups of actors who all mobilize arguments scientific, ethical and economic”

- **Aim**: Thinking, exchange of views and information about potential effects of radiofrequencies. Useful for PNR EST call, working group.

- **About 30 people**
  - 9 from associations, 5 from mobile phone operators and broadcasters
  - 5 scientists from working group, 10 from Anses

- **Three meetings/year**. Discussion mainly about Anses actions:
  - Call
  - Expertise at Anses
  - Others
Link with stakeholders: Meeting for dissemination of project result

Twice a year special day to discuss results of funded projects

• 30 May 2012: From exposure indicator to biomarkers
• 25 September 2012: Radiofrequencies
• 10-11 December 2012: Endocrine disruptors (MEDDE/ANSES)
• 16 April 2013:

243 registered people at RF meeting
Some comments about research on RF

- Not all questions can be dealt with using competitive calls
  - Need for other tools (specific contracts)

- Small size community

- Trust (for risk related to new technologies)
  - Risk related to technology and “independent research teams“
  - Fostering projects mixing various types of partners
  - Weight of methodology

2009 working group report page 17:

“..., the treatment of public controversy can hardly be reduced to the improvement of information [of layman], but it implies procedures for consultation and research combining the plurality of stakeholders and which may trigger mechanisms for mutual learning”
Conclusion

- **Various activities at Anses**
  - Dialogue committee
  - Call for projects
  - Expertise (specific working group)

- **Specificities of the scientific domain**
  - Small community
  - The question of trust (similar to a few other domains)
  - Attempts to foster new type of projects involving stakeholders

- **The 2013 PNR EST call is open**
  (deadline for letters of intent 30 January 2013)