OVERVIEW OF THE FR-ID COOPERATION IN RESEARCH

Version 1 – March 2016
THEMATICS: 2016 JWG EXEMPLE

Overall Participation

- Ecology & Environment: 22%
- Engineering, New & RenEnergy: 15%
- Social & Human Sciences: 12%
- Law, Economics and Management: 8%
- ICT and Educ Technology: 6%
- Health Sciences & Food safety and Security: 4%

Indonesia Participation

- Ecology & Environment: 22%
- Engineering, New & RenEnergy: 19%
- Social & Human Sciences: 6%
- Law, Economics and Management: 9%
- ICT and Educ Technology: 22%
- Health Sciences & Food safety and Security: 22%

France Participation

- Ecology & Environment: 53%
- Engineering, New & RenEnergy: 25%
- Social & Human Sciences: 11%
- Law, Economics and Management: 4%
- ICT and Educ Technology: 8%
- Health Sciences & Food safety and Security: 1%
THEMATICS: NUSANTARA FEEDBACK

- 59 eligible proposal (with 70 initially opened applications)
- In line with FR and ID priorities
- Engineering (25%), AgroForestry (20%), Health (15%), TIC (15%), SHS (10%)

Main FR partners
1) Montpellier, 2) Paris, 3) Toulouse/La Rochelle (ex aequo)

Main ID partners
1) IPB, 2) ITB, 3) UGM, 4) UI

Main thematic fields
- Agronomy, animal, vegetal and agroalimentary products
- Engineer science
- Biology, health, medicine
- Maths and interactions
- Information and communication science and technology
- Human science and humanities
- Chemistry
- Social science
- Earth, space and universe science

Focal point for S&T :
Prof Dr ir Nicolas Gascoin,
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TREND OVER TIME THROUGH NUSANTARA DATA

Thematic fields evolution

- Engineer sciences
- Climate & Environment
- Biology, Health & Medicine
- Agro-forestry
- Energy & transport
- Chemistry
- Economy

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BRIEF SURVEY OF COOPERATION

- 63 PhD Students defending PhD degree or registered in PhD curricula (About 20% in Social and Human Sciences)
- About 4 M€ of equivalent budget (missions, research, salaries,...)
- 92 joint publications

271 missions from France to Indonesia

**Thematics**

<table>
<thead>
<tr>
<th>Thematics</th>
<th>Weight in fields missions (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agroforestry</td>
<td>40.6</td>
</tr>
<tr>
<td>Social &amp; Human Sciences</td>
<td>12.2</td>
</tr>
<tr>
<td>Ecology &amp; Environment</td>
<td>11.4</td>
</tr>
<tr>
<td>Engineering Sciences</td>
<td>9.6</td>
</tr>
<tr>
<td>Biology</td>
<td>8.1</td>
</tr>
<tr>
<td>Astronomy</td>
<td>3.0</td>
</tr>
<tr>
<td>Chemistry</td>
<td>2.2</td>
</tr>
<tr>
<td>Other</td>
<td>12.9</td>
</tr>
</tbody>
</table>

**Publications**

- Impact of budget investment
- Under estimation of MNHN budget

**PhD Students**

Impact of the thematics on the number of PhD

- Agroforestry: 40.6%
- Social & Human Sciences: 12.2%
- Ecology & Environment: 11.4%
- Engineering Sciences: 9.6%
- Biology: 8.1%
- Astronomy: 3.0%
- Chemistry: 2.2%
- Other: 12.9%

**Budget**

Difficulty to separate IRD/Montpellier for example

**Focal point for S&T**

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PUBLICATIONS

<table>
<thead>
<tr>
<th>Year</th>
<th>Total of Indonesia co-publications</th>
<th>Share of Indonesia international co-publications</th>
<th>Co-publications CNRS – Indonesia</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009 / 2010</td>
<td>736</td>
<td>626</td>
<td>20</td>
</tr>
<tr>
<td>2010 / 2011</td>
<td>725</td>
<td>602</td>
<td>17</td>
</tr>
<tr>
<td>2011 / 2012</td>
<td>736</td>
<td>626</td>
<td>19</td>
</tr>
<tr>
<td>2013 / 2014</td>
<td>1415</td>
<td>1173</td>
<td>76</td>
</tr>
<tr>
<td>2014 / 2015</td>
<td>1427</td>
<td>1240</td>
<td>81</td>
</tr>
</tbody>
</table>

• About 85% of Indonesian publications are co-authored with international partners (about 55% for France)
• Around 5% of Indonesian publications are authored jointly with France: rate is stable over last 5 years (Half thanks to CNRS institution)
• But less than 0.1% of French publications are authored jointly with Indonesia

Distribution of co-publications with Indonesia

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>20.4%</td>
</tr>
<tr>
<td>Australia</td>
<td>14.3%</td>
</tr>
<tr>
<td>USA</td>
<td>12.7%</td>
</tr>
<tr>
<td>Malaysia</td>
<td>12.3%</td>
</tr>
<tr>
<td>Holland</td>
<td>9.4%</td>
</tr>
<tr>
<td>UK</td>
<td>9.0%</td>
</tr>
<tr>
<td>Germany</td>
<td>7.1%</td>
</tr>
<tr>
<td>France</td>
<td>5.3%</td>
</tr>
<tr>
<td>China</td>
<td>4.9%</td>
</tr>
<tr>
<td>Thailand</td>
<td>4.7%</td>
</tr>
</tbody>
</table>

Source: MAEDI, ICT Asia 2016

Health is the best example for which Regional cooperation is relevant

Health 50%

Agroforestry 33%

Energy 17%

Regional synergies

Proof that international cooperation is a strength for publishing
EXISTING FUNDING OPPORTUNITIES

Over 82 identified schemes for funding in order to strengthen FR-ID cooperation in Research:

- Pretty large funding availabilities and spectra
- Clear Priority for funders in Environment, Health and Humanities
- Need for pushing more long-term CFP

Schemes

- Environment: 15 CFP
- Health: 10 CFP
- Humanities: 9 CFP
- Fundamental Sciences: 4 CFP
- Energy: 4 CFP
- Agroforestry: 3 CFP
- Engineering: 3 CFP

With time length over 2 years: 19

Granted amount

- >100K€
- 30-100K€
- <30K€
CONCLUSIONS

• « Instant vision » of key players & thematics with quantification of present activity
• Need to identify a way for getting consolidated data (ID partners and FR ones)
• After:
  ▪ Possibility to identify how the different schemes of cooperation can support the main thematics,
  ▪ Can achieve visible impact, can structure the players,
  ▪ Help to identify a clear network of actors by thematics
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