



**NWO and its international environment**

**A bilateral research programme  
on Biobased Economy**

**Dr Maarten de Zwart  
Dr Bea Pauw**



## About NWO

*National research council of The Netherlands*

## Mission

*... to facilitate scientific **talent** by means of national **competition***

*... to raise **society's awareness** of the importance of world-class research*

*... to enable the results of such research to **benefit society***

## By

*Funding basic as well as application-oriented research*





## NWO & research in the Netherlands

- Total R&D expenditure: 9 bln euro
- Percentage of GNP: <2 %
- R&D personnel: 90,000 fte  
*of which funded by NWO:* 5,500 researchers  
*with an annual budget of:* 700 M€
- Scientific publications: 2.5 % of world total
- Scientific impact Dutch academic research: number 3 in the world



## Strategy priorities

- Strengthening talent and basic research
- Investing in societally-inspired themes
- Encouraging and facilitating knowledge utilisation
- **Strengthening international cooperation**
- Promoting access to high-quality research facilities
- Strengthening the national role of NWO research institutes

## International



### **In Europe:**

- Co-operation with other national funding organisations, joint calls
- Jointly identifying research themes (JPI, Eranets KP7)
- Jointly investing in large research facilities (ESFRI)
- Influencing European research policy

## International

### Outside Europe:

Advancing research co-operation with



Scope:

- *Global* development of knowledge
- International *competitive* research
- *Excellence* in joint projects

Fostering innovation:

- *Thematic* approach
- Joint research universities & *companies*



## **Model bilateral collaboration**

- Research topics chosen on excellence in both countries
- Calls for bilateral projects
- Duration 3-5 years
- NWO funds NL research
- Budget from Dutch side 250-300 k€ per project
- Exchange of researchers
- Public private partnerships if appropriate



## Research cooperation NL-Brazil



- Bilateral programs of NWO with CNPq and Fapesp on Biobased Economy
- Fundamental science (Fapesp, CNPq); possibilities for PPP (CNPq)
- Topics:
  1. **Crop improvement**: More and better agricultural, horticultural and aquaculture products;
  2. **Sustainable agriculture**: resilience of the production system;
  3. **Biorefinery**;
  4. Chemocatalytical, biocatalytical and thermochemical **conversion of biomass** to fuels and chemicals
- Joint budget total ~7 million euro



## NWO- Fapesp call

- Agreement on future 3-5 year cooperation
- Joint research projects
- First theme: Biobased economy (4 topics as mentioned)
- **Launch:** December 2012; **Deadline** March 2013
- option: include third countries: South Africa

## NWO- CNPq call

- Joint research projects & exchanges of researchers
- Theme: *Biobased economy* (4 topics +)
- Call in 2013 (preferably in parallel)



**Thank You**

Netherlands Organisation for Scientific Research