

Science for impact

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For quality of life

Global Challenges

Food Security



Climate change



*Agricultural
Life
Sciences*



Stewardship

Food & Health



Biobased Economy

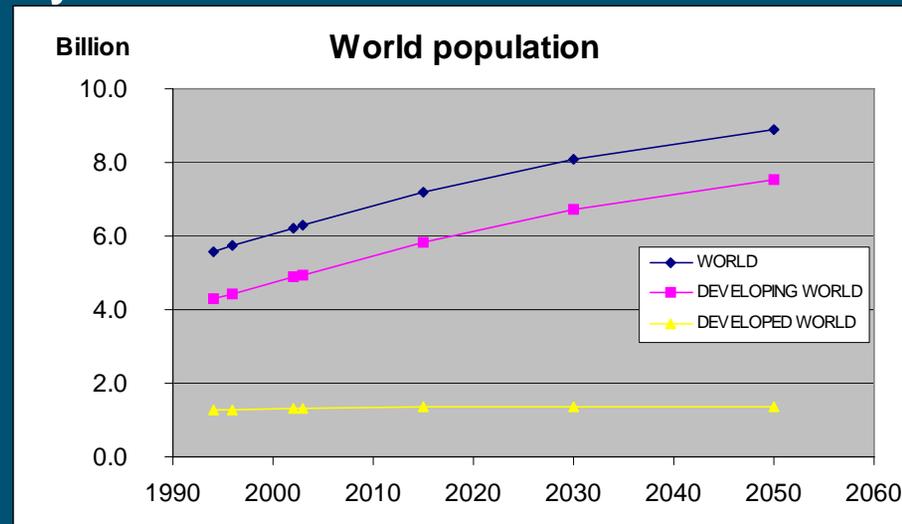


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Long term challenges for the Agri-food system (2050)

- Robust food production 2x
- Eco-efficiency 2x
 - Less land, less water, less nutrients, less agrochemicals, less environmental impact
- Framework: Biobased Economy



Innovations needed

- **New Technologies and systems approach**
 - For the whole agri-chain and environment
- **Institutions**
 - regulations, laws, customs, beliefs, norms and organizations, incl. in education, research, extension
- **Governance**
 - Public policies for strategic directions change, incentives, and facilitation of institutional & technological innovations



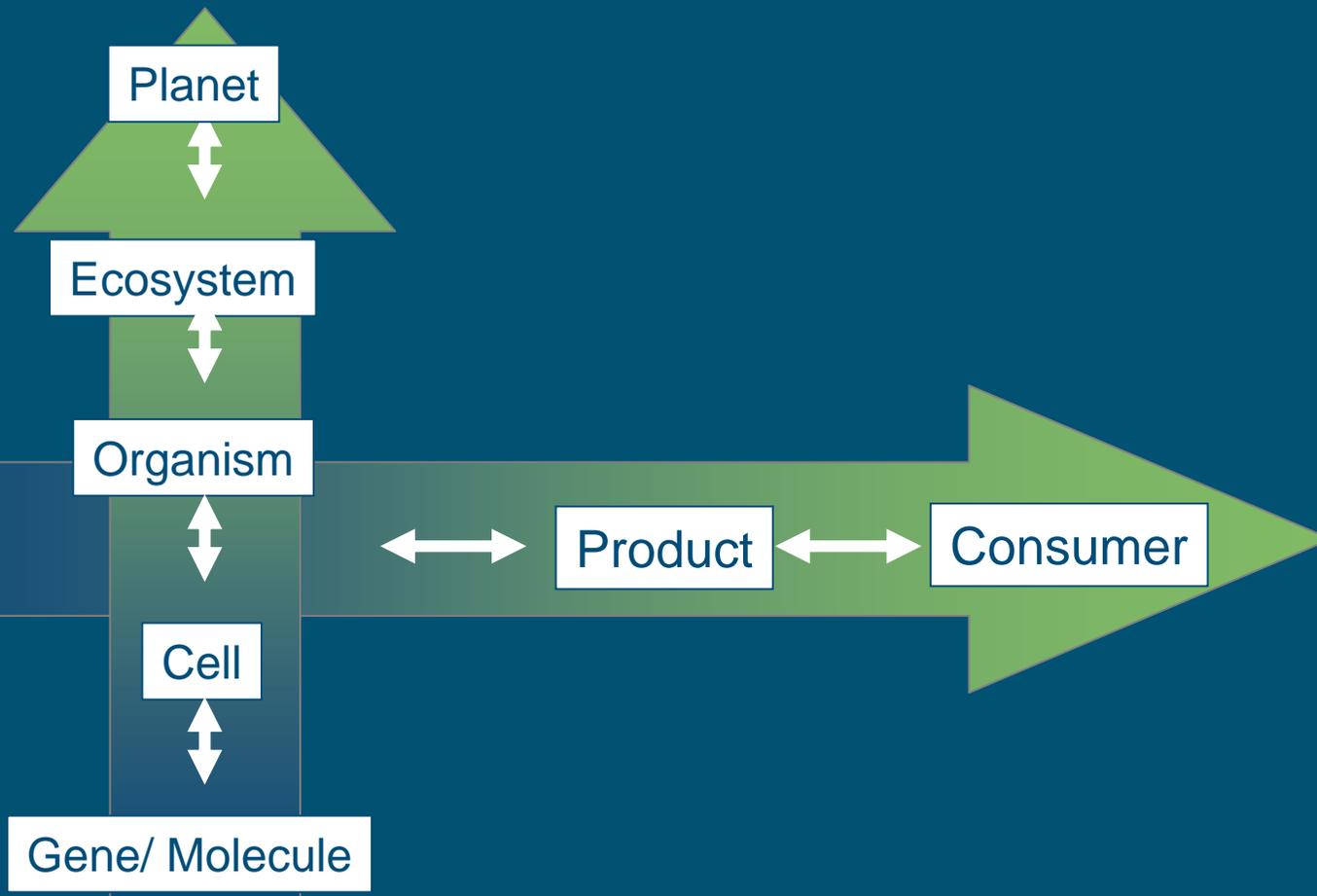
The Wageningen UR domains



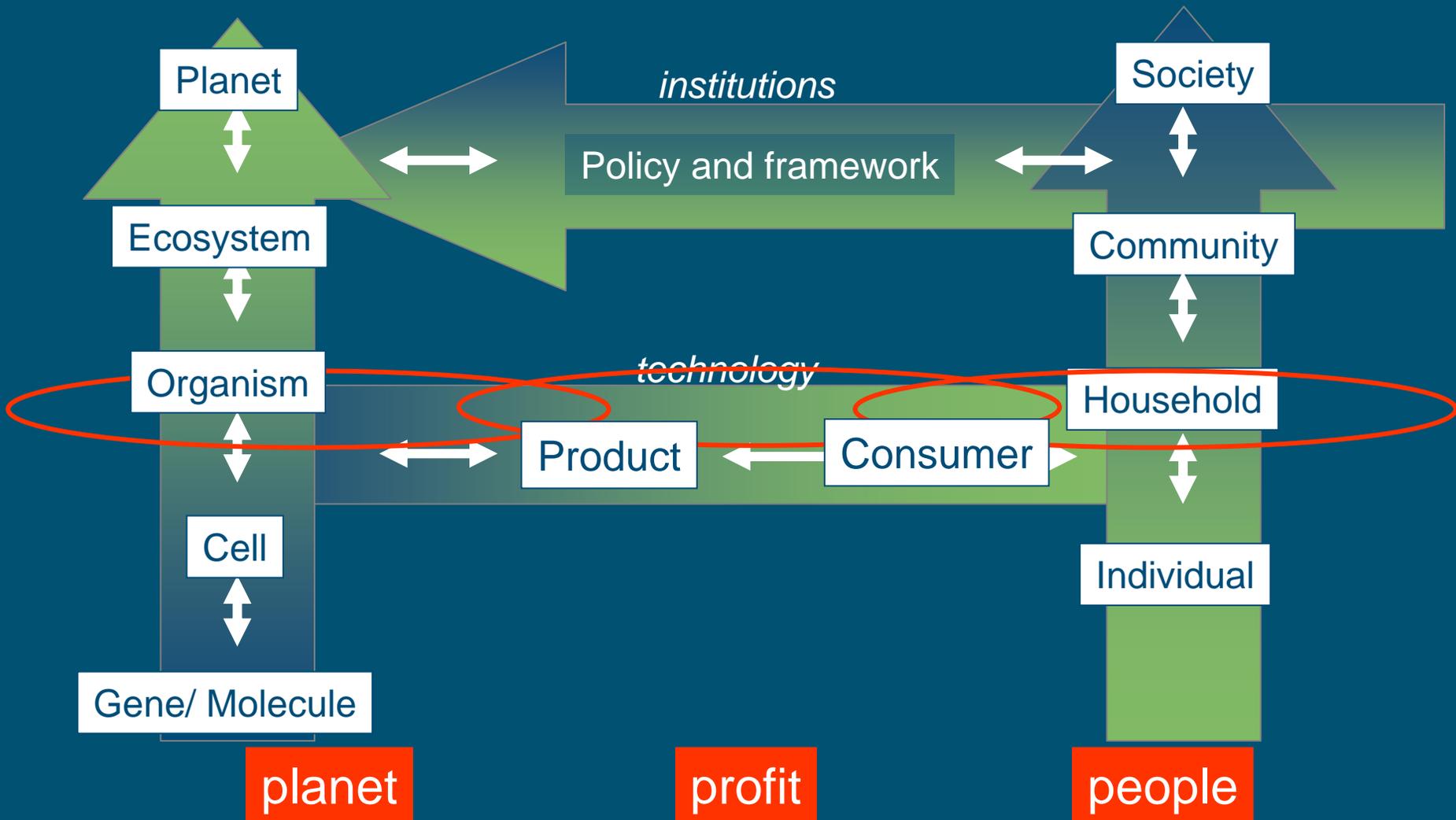
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Wageningen approach : biological dimension

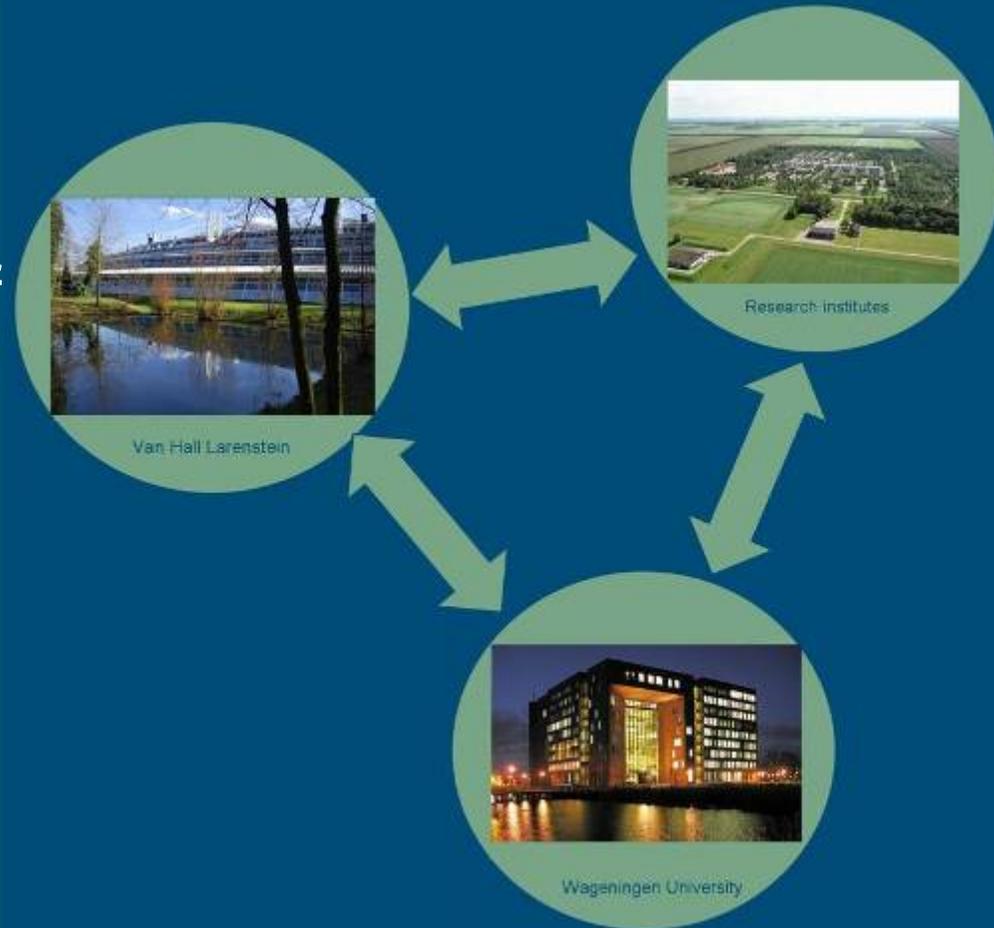


Wageningen approach: interacting with social dimension



Wageningen UR

- >11,000 students
- >1,500 PhD students
- 6,500 faculty and staff
- Science for impact on science, society and business
- Internationally recognized know how cluster in domain



Genetic resources within Wageningen

■ Mandate of CGN

- to contribute to conservation and to promote utilisation of genetic resources for food and agriculture

■ Scope includes

- Animal genetic resources
- Plant genetic resources
- Forest genetic resources



Activities in Animal Genetic Resources (1)

- *ex situ* conservation
 - genebank semen (and embryo) collections

- support for *in situ* management
 - small populations of Dutch origin
 - minimising inbreeding rates
 - use of genebank germplasm



Activities in Animal Genetic Resources (2)

■ policy advice

- conservation policies in relation to veterinary policies
- support to implementation FAO's Global Strategic Plan
- access and benefit-sharing issues

■ supportive research

- cryobiology
- genetic management strategies



This workshop

- Technical perspective
- Policy relevant
- Wide participation
- Highly timely



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