



Ernesto Reyes

The usefulness of *agri benchmark* for developing and emerging countries

Livestock futures conference, Bonn September 6, 2012

Contents

A. Who we are

B. What we do

C. *agri benchmark* and livestock projects in developing and emerging countries

Contents

A. Who we are

agri benchmark Branches

Coordination



Cash Crop



Cereals

Oilseeds

Sugar

Other

Beef and Sheep



Cow-calf

Fattening

Pig and Poultry

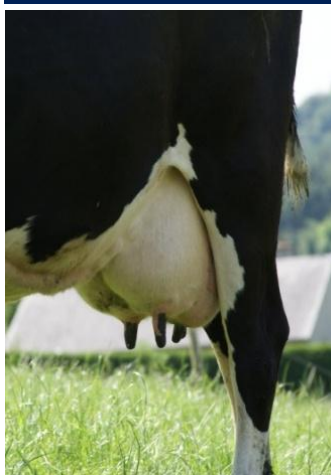


Under construction

Sows

Fattening

Dairy



EU: EDF

Global: IFCN

Horticulture



Under construction

Organic



Under construction

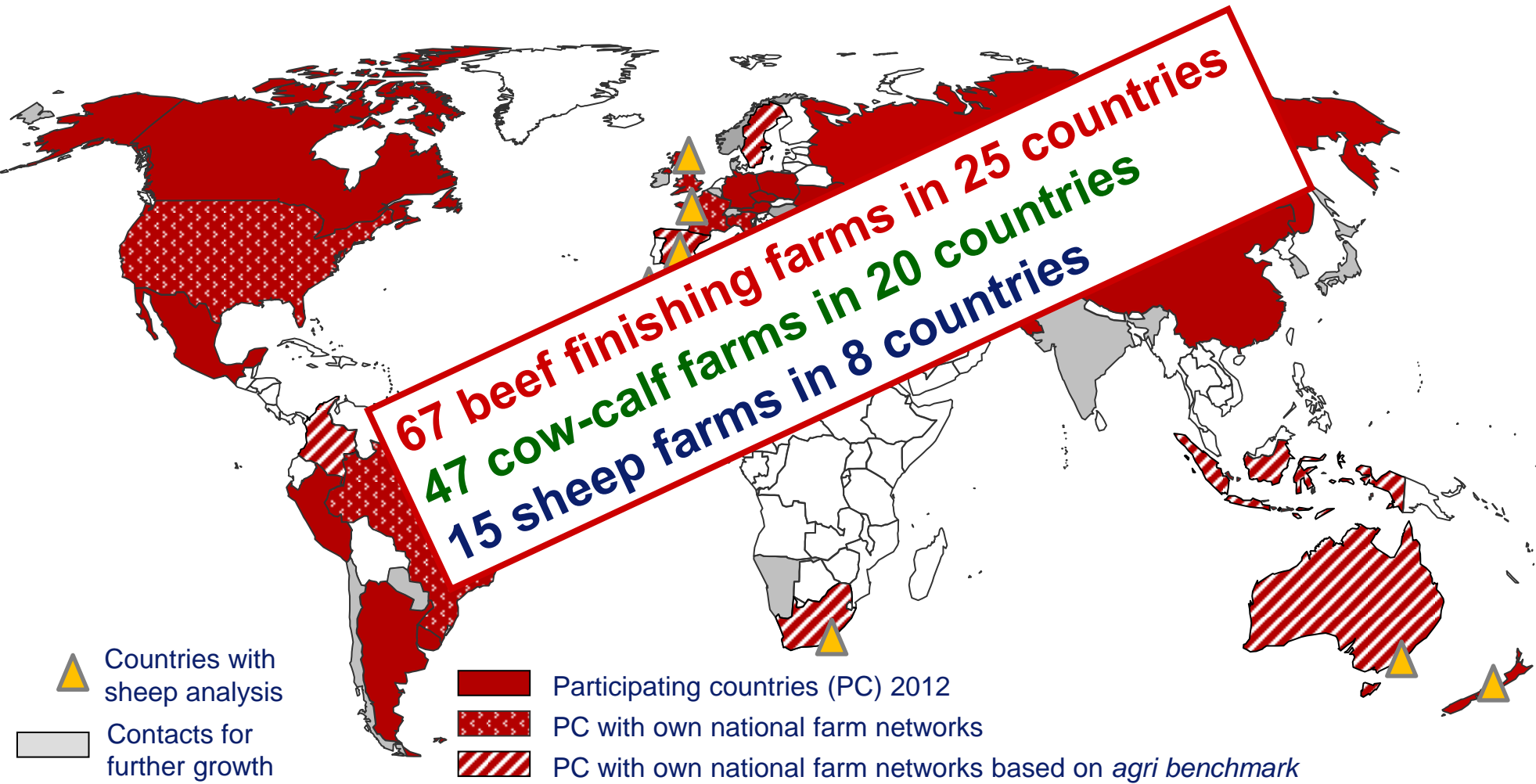
What is *agri benchmark* Beef and Sheep?

agri benchmark – understanding agriculture worldwide

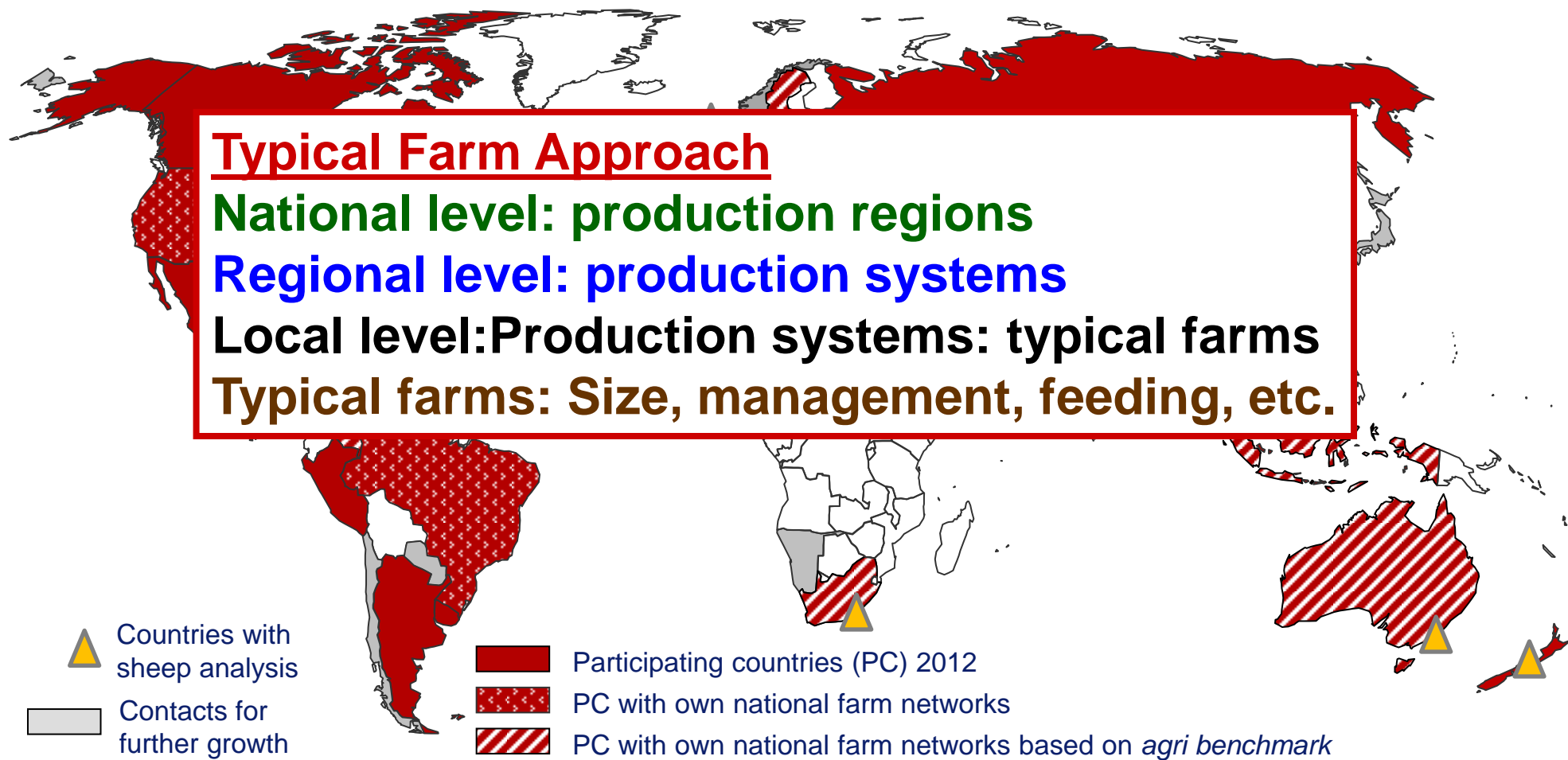


- Our core competence:
Production systems and their economics
- An expert network which started in 2002 >>> more than just data
- Global, non-profit, independent >>> credibility
- Standardised methods >>> global comparability
- Reflecting framework conditions and drivers >>> comprehensiveness

Countries in the *agri benchmark* Beef & Sheep Network



Countries in the *agri benchmark* Beef & Sheep Network



Partners of *agri benchmark* Beef and Sheep

Europe



Agriculture and
Horticulture
Development
Board
meat services



Global Supporters



North America



South America



Africa



RESEARCH AND INNOVATION



Ministère de l'Agriculture
et de la Pêche Maritime

Oceania / Asia / Middle East



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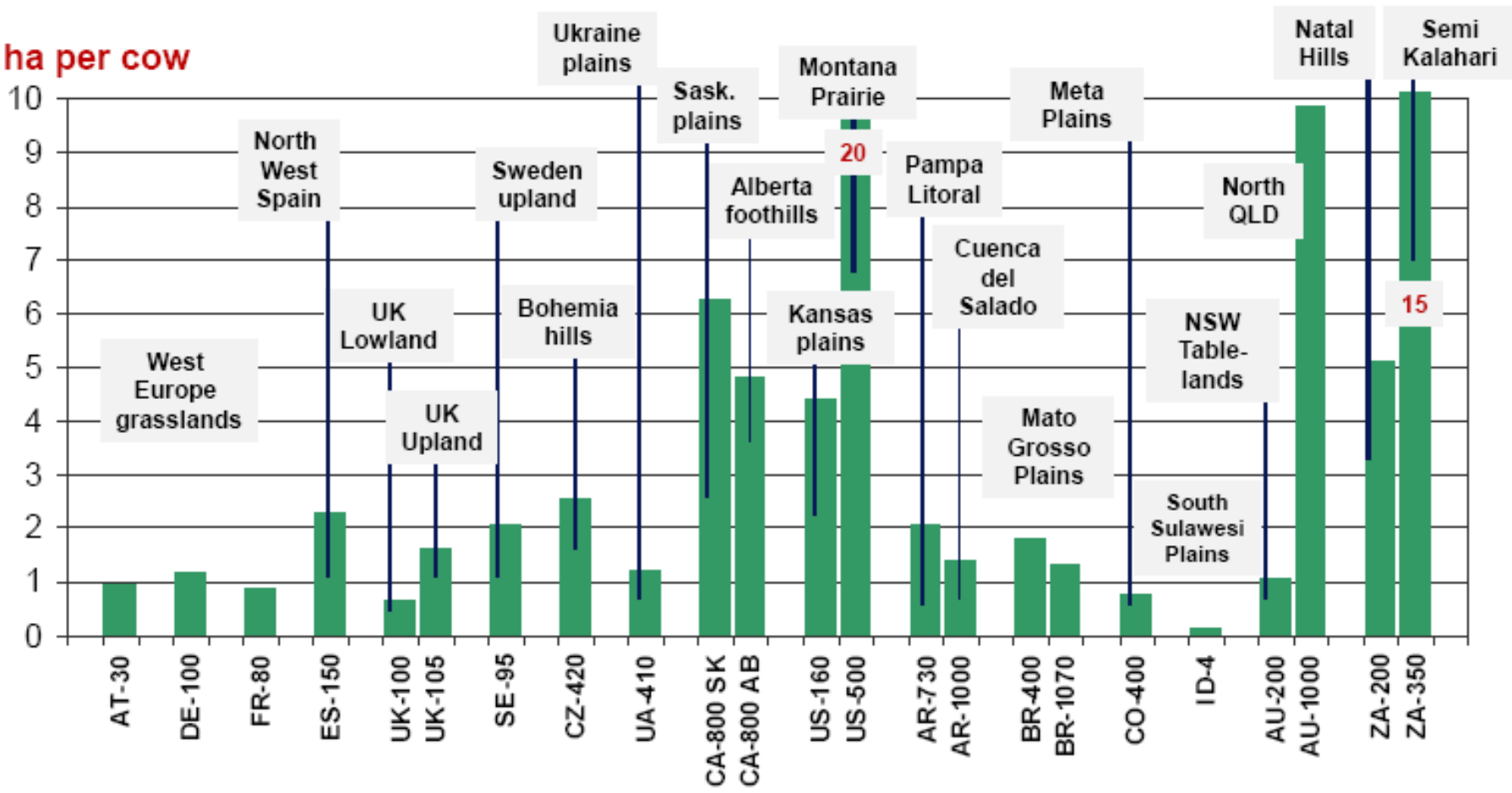
A. Who we are

B. What we do

- **Create** a harmonised database of typical farms
- **Analyse** the farms using harmonised methods for benchmarking by regions, by production systems
- **Provide** up-to-date sector information
- **Validate** results at the Conferences (Beef & Sheep conference)
- **Participate and promote** special studies and research and developing projects
- **Publish** the results in the annual Reports (Beef & Sheep reports)
- **Improve** methods continuously
- **Exchange** ideas on current issues and research projects

Some examples (cow-calf)

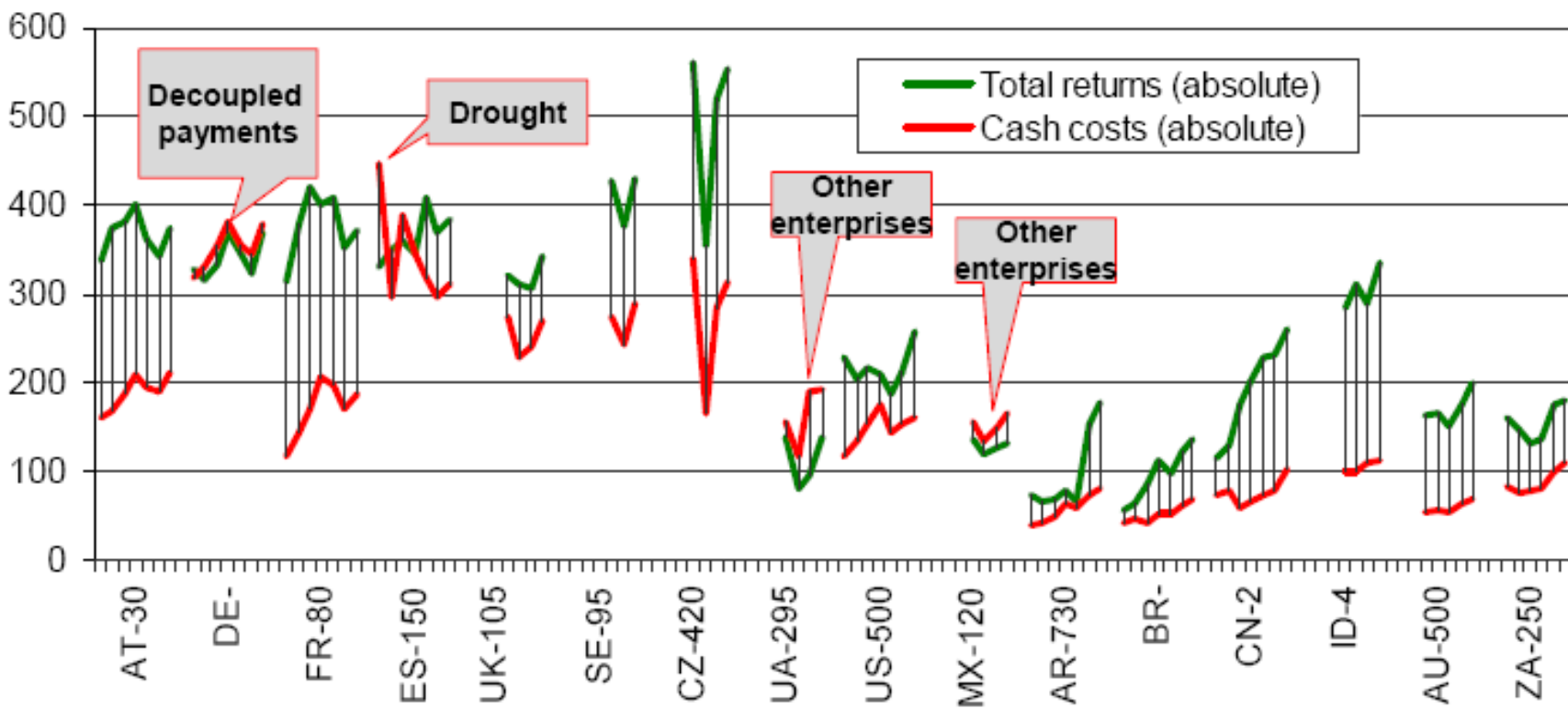
Land intensity in cow-calf farms



Some examples (cow-calf)

Margin over cash costs in cow-calf 2005-2011

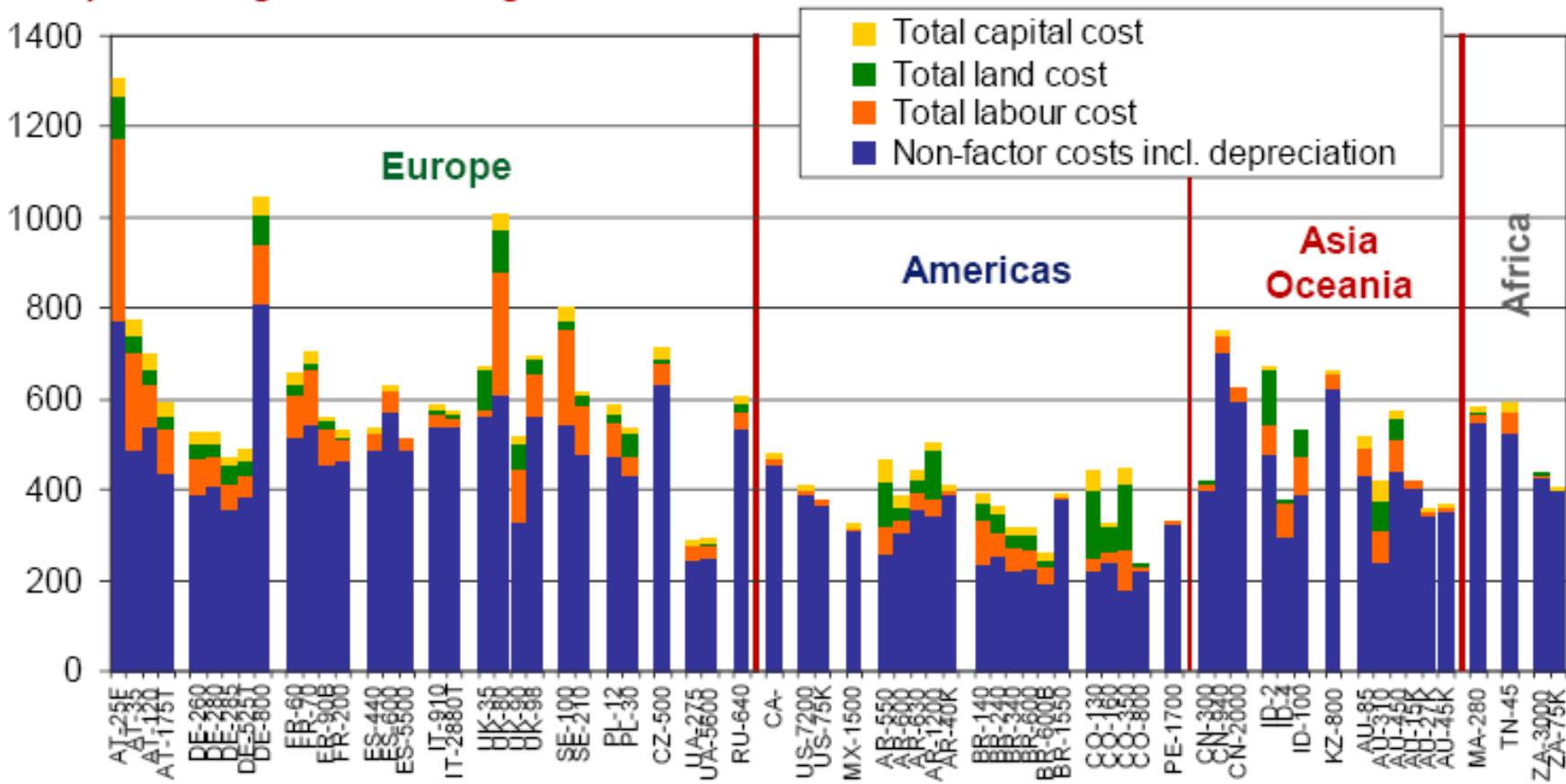
USD per 100 kg live weight



Some examples (Beef fattening)

Total cost by countries 2011

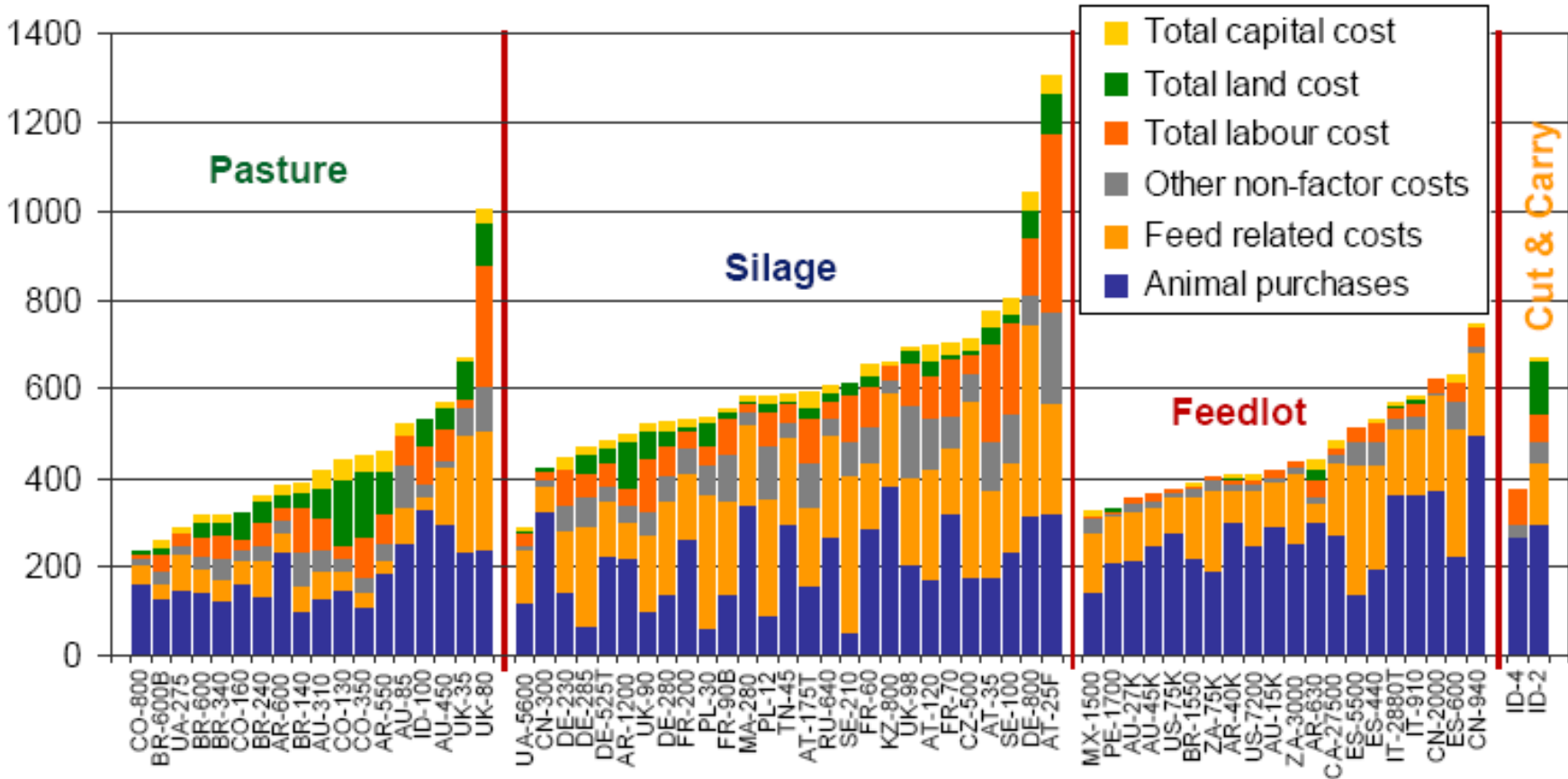
US\$ per 100 kg carcass weight sold



Some examples (Beef fattening)

Total cost by production systems 2011

US\$ per 100 kg carcass weight sold

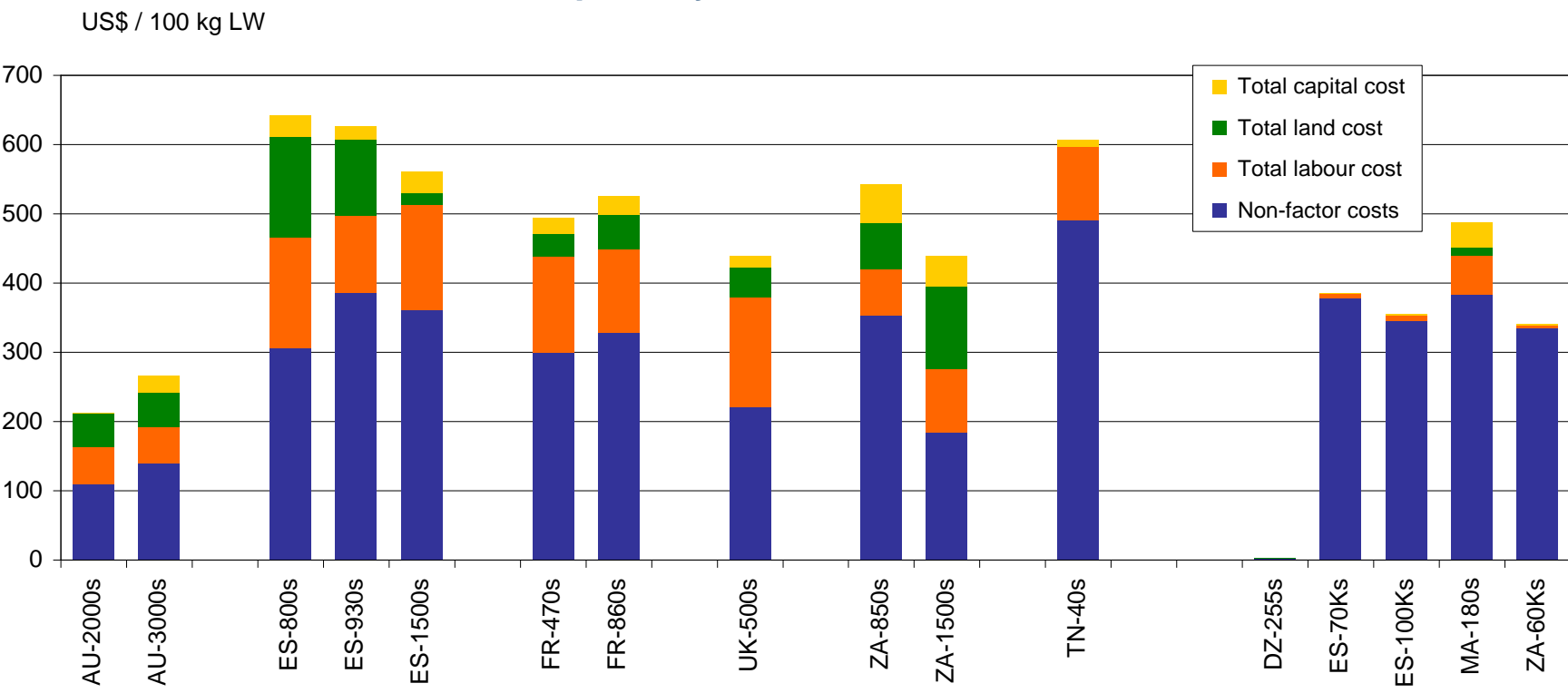


Some examples (Sheep – lamb fattening)

Costs of the ewe enterprise

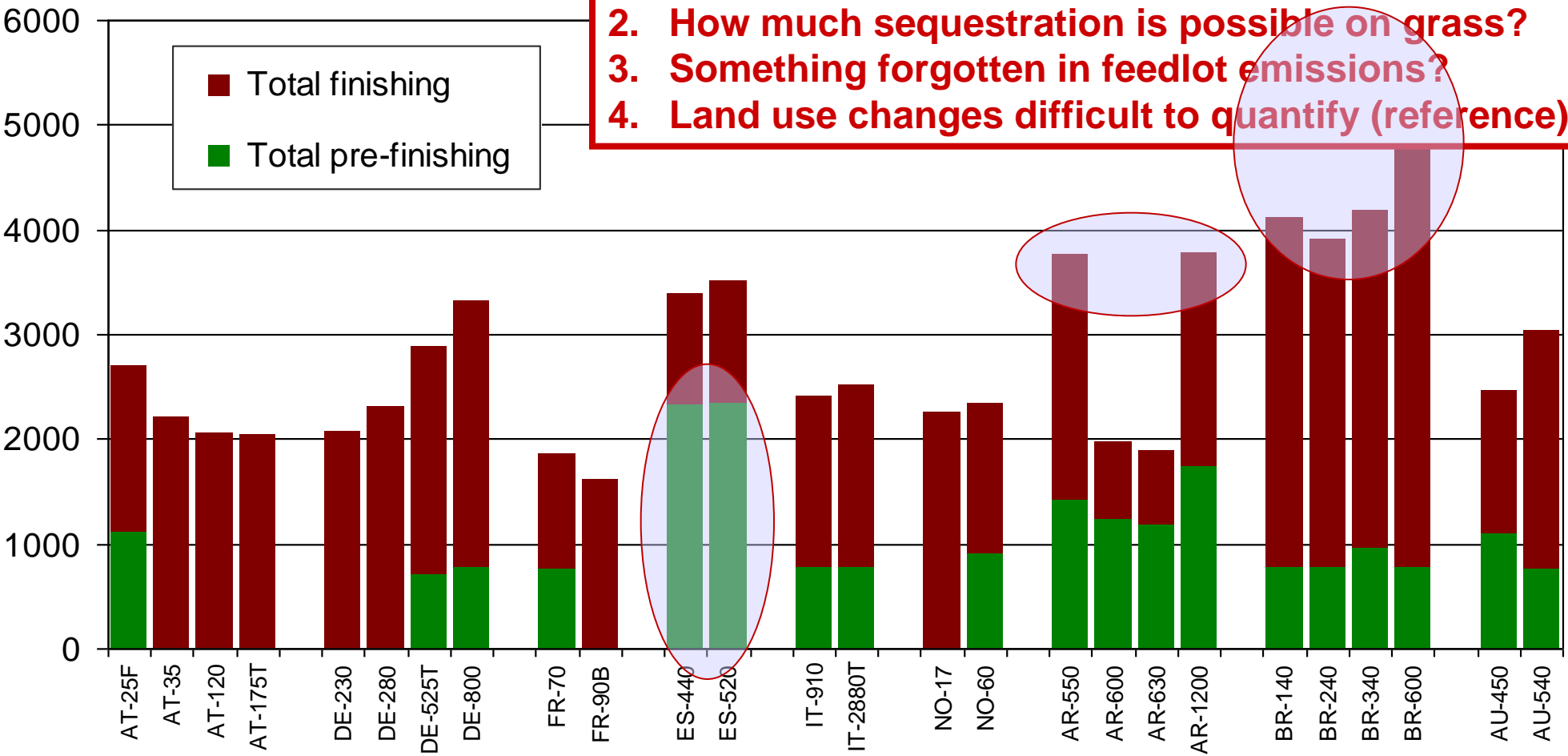
3.6.1

Cost of the ewe enterprise by factor and non-factor costs - absolute values

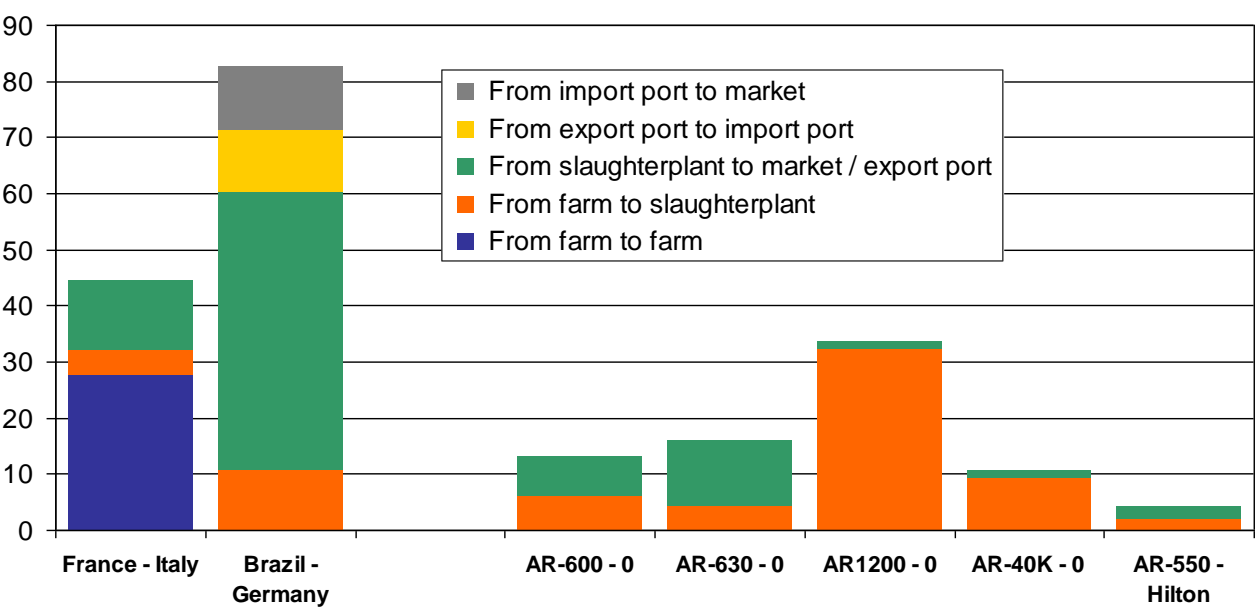


Some examples - Emission benchmarking (Cow-calf and finishing)

kg per 100 kg live weight sold

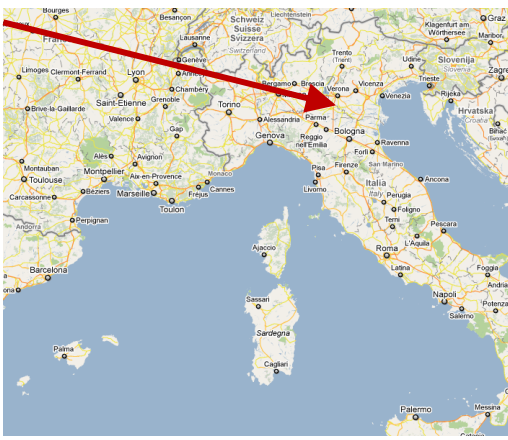
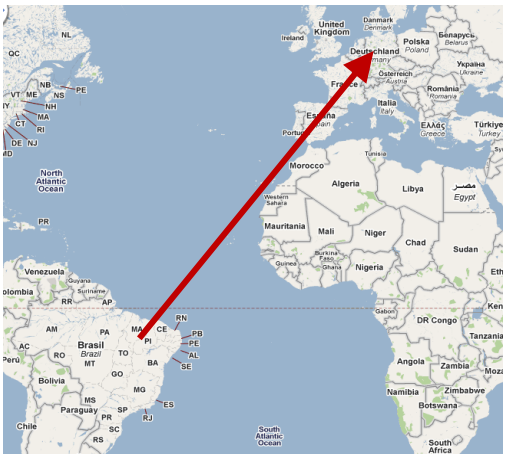


Some examples (Emissions from transport – return included)



Note
Latest research shows that the proportion of transport emission of Brazilian beef to Europe has a proportion of **less than 2 percent** in total emissions (farm level + transport).

Source: Bedoya et al. (2011)



Some examples

(Institut de l'Elevage is implementing LCA using *agri benchmark*)

Agri benchmark and Environmental assesement



- What has already
 - « Emission Benchmark »
 - A consistent data set
- LCA = An environmental assessment in 3 points
 - **Multicriteria :**
 - × Climate change (GHG), Water quality, Energy, ...
 - to avoid pollution transfers (i.e. from soil to air)
 - **Global:**
 - × Whole life cycle, or part of it
 - to avoid transfers from one step to an other
 - **Fonctionnal Unit**
 - × The fonction of the product, or of the system (kg of live weight meat, kg of meat produced, ha ...)
- The Agri benchmark environmental reference
 - × Harmonized and well defined
 - × make it possible to compare different environmental points
 - × understand the different diversities, variability, and uncertainties
 - × discuss about the final impact



LCA on beef production

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A. Who we are

B. What we do

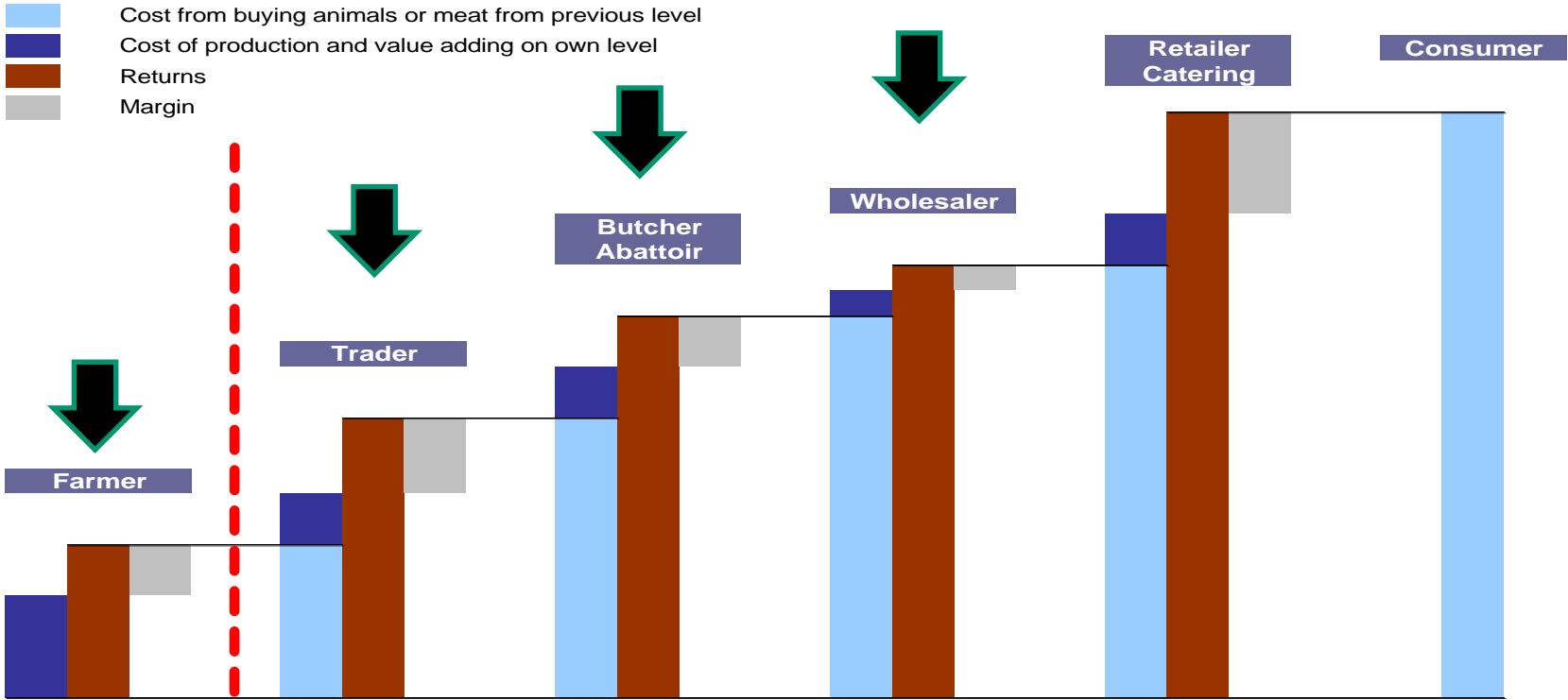
C. *agri benchmark* and livestock projects in developing and emerging countries

- Indonesian project
- FAO project and Maghreb region
- Other initiatives and expectations

Indonesian project

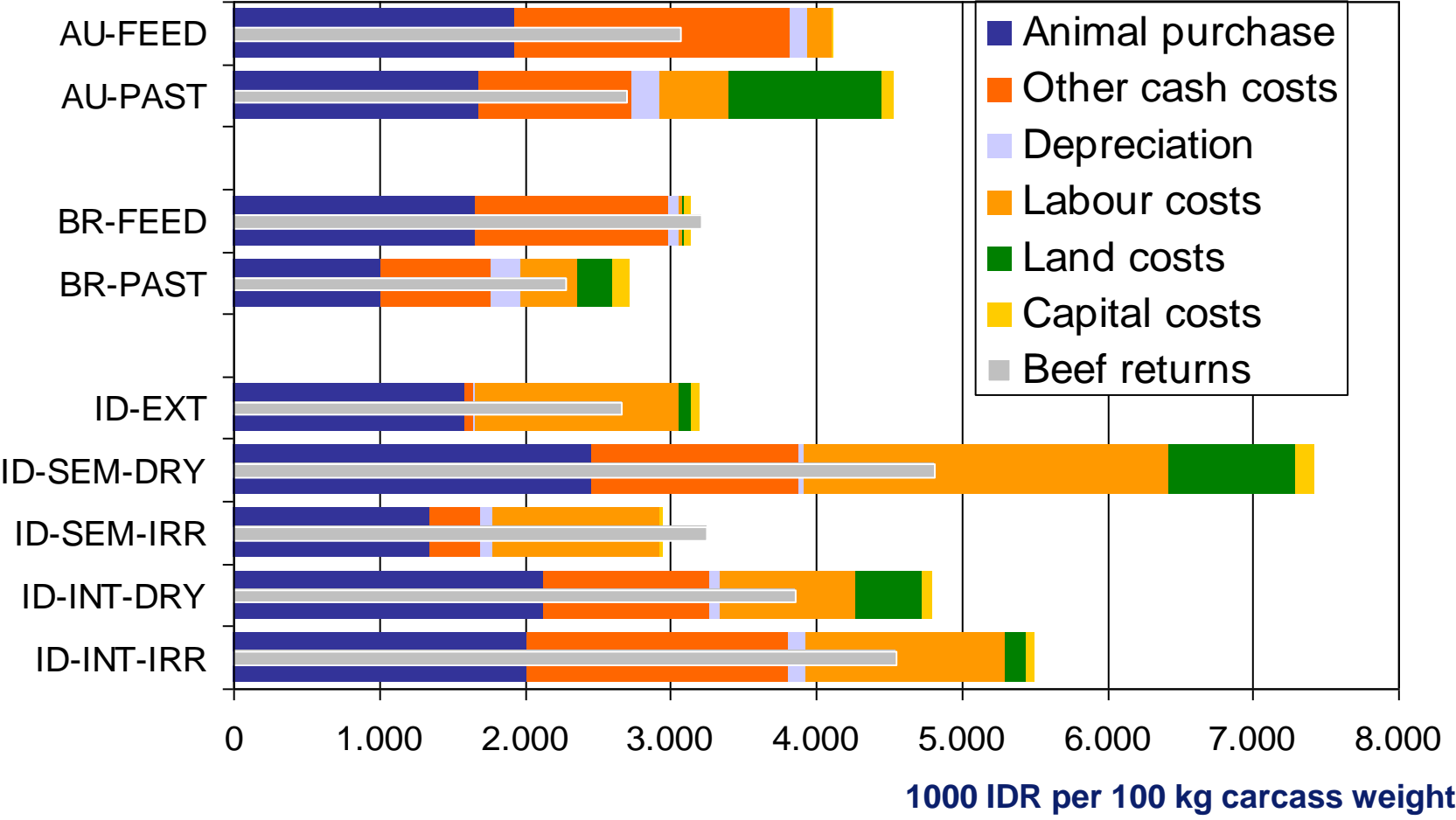
Benchmarking the Beef Supply Chain in Eastern Indonesia

Supply chain



Indonesian project

Comparing incomes and costs



FAO project and Maghreb region

Farm level monitoring and projections

agri benchmark,
a complementary tool for FAO policy work at country level
Experiences from the Maghreb Region



Günther Feiler, Policy Officer,
Policy Assistance Support Service, TCSP
TAF, Rome

FAO project and Maghreb region

Agri benchmark complementarity and compatibility
with FAO policy work in the region

Selected FAO core functions	Agri benchmark
b) Stimulating the generation, <u>dissemination</u> and application of information and knowledge	Major objective
d) Articulate policy and strategy options and advice	Aim of utilization
e) Provision of technical <u>support to promote technology transfer</u> , catalyze change and <u>build capacity</u>	Outcome when using the tool
g) Bring integrated, interdisciplinary and <u>innovative approaches</u> to bear on the Organization's technical work and support services	Impact when using the tool
h) Work through <u>strong partnerships</u> and <u>alliances</u> where joint action is needed	Underlying philosophy of the tool

Other initiatives

agri benchmark is participating in the Livestock Dialogue (IMS)

Topic

1] Closing the efficiency gap

2] Restoring value to grasslands

3] Reduced discharge

agri benchmark possible contribution

- Measuring productivity differences of production systems
- Evaluating the economics of more efficient systems and their implications

- Economics of existing and improved grazing systems

- Emission and life cycle analysis of beef production
- Environmental benchmarking of livestock supply chains

Other initiatives

Participation in the World Agricultural Watch (FAO-CIRAD)

- The aim of WAW is to conduct comparative analyses on various scales, by organizing a network of national observation centres, covering the different types of agriculture, their dynamics, structural change and their impact in terms of sustainable development.
- A pilot project between WAW and *agri benchmark* is under discussion

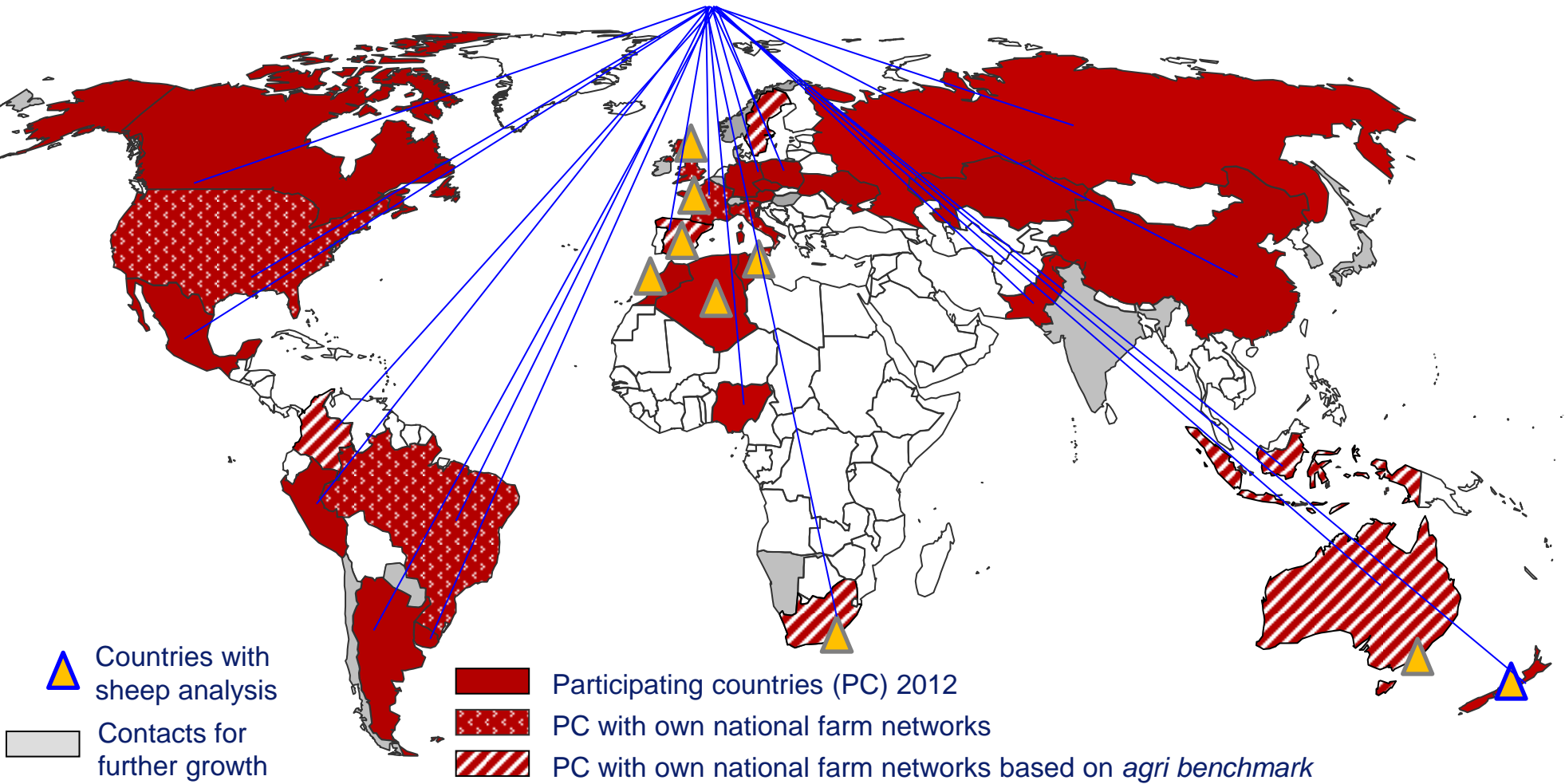
In the process

- ILRI (two exploratory meetings)
- Sustainable Livestock Grazing Systems on Chinese Temperate Grassland Project (Gansu – Inner Mongolia - ACIAR)

We, as a network ...

- **... have observed:**
 - ✓ Land tenancy and availability, labour (skilled and competition)
 - ✓ Being part of the value chain (market oriented – avoiding distortions)
 - ✓ Access to services (know how, technology adaptation, training)
 - ✓ Farmers organizations
- **... can provide:**
 - ✓ Measurement and benchmarking (comparability, household considerations)
 - ✓ Capacity – building (access to information, analysis and simulation)
 - ✓ Visibility (participatory approach showing results, potentialities and possibilities)
 - ✓ Understanding regional differences and economic rationality behind production systems and farmers reactions
- **... would expect:**
 - ✓ Increase participation from developing countries
 - ✓ Access to local contacts in countries like India, Pakistan and Kenya for the participation in the network activities

Livestock Network Platform



- **Thanks for your attention**
- **Further contacts:**
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- **Visit our webpage: www.agribenchmark.org**
- **More information:**
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Tel +49 531 5965141

FAO project and Maghreb region

Outlook

- ▶ Build on what exists: Improving information on existing typical farms
- ▶ Adding new crops/livestock systems
- ▶ Using information for policy dialogue in combination with FAPDA
- ▶ Strengthening cooperation with local stakeholder organizations (including fund raising)
- ▶ Working at smallholder level

Some examples (Beef fattening)

Proportion of feed related costs in total costs

Proportion in total costs

