

AgriXchange

European Data Exchange in Agriculture



WAGENINGEN UR
For quality of life

European Data Exchange in Agriculture

SDIC - AgriXchange

- mission:
 - support harmonization and standardization of information in Agriculture across Europe
 - contribute to standardization of agriculturally related information inside of INSPIRE
 - main focus is standardization of data sets related to the INSPIRE Annex III theme “Agricultural and aquacultural facilities”

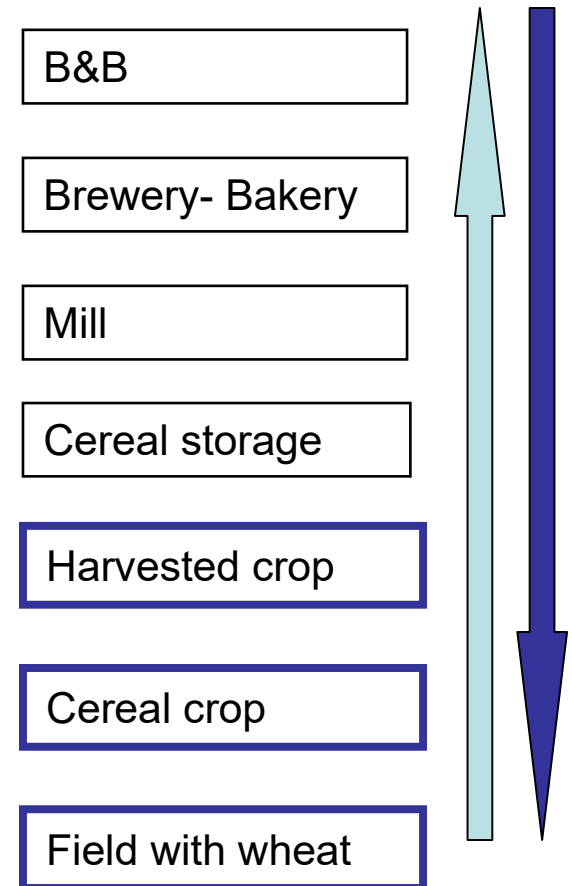
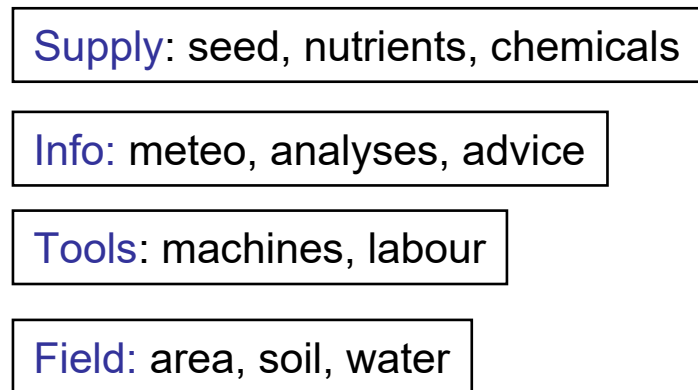
arable farming – part of a chain

Value chain

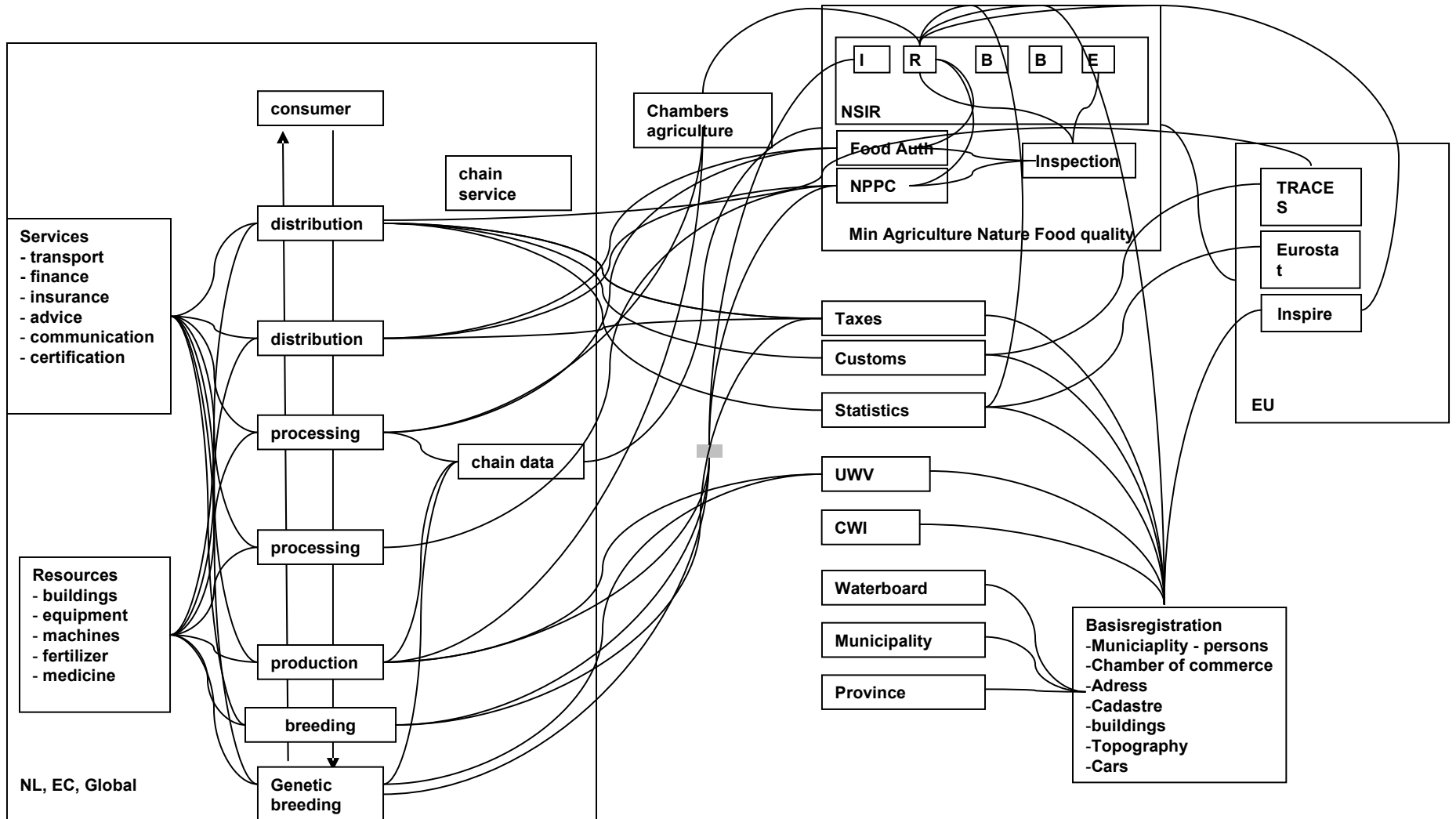
- Product Information

Supply chain

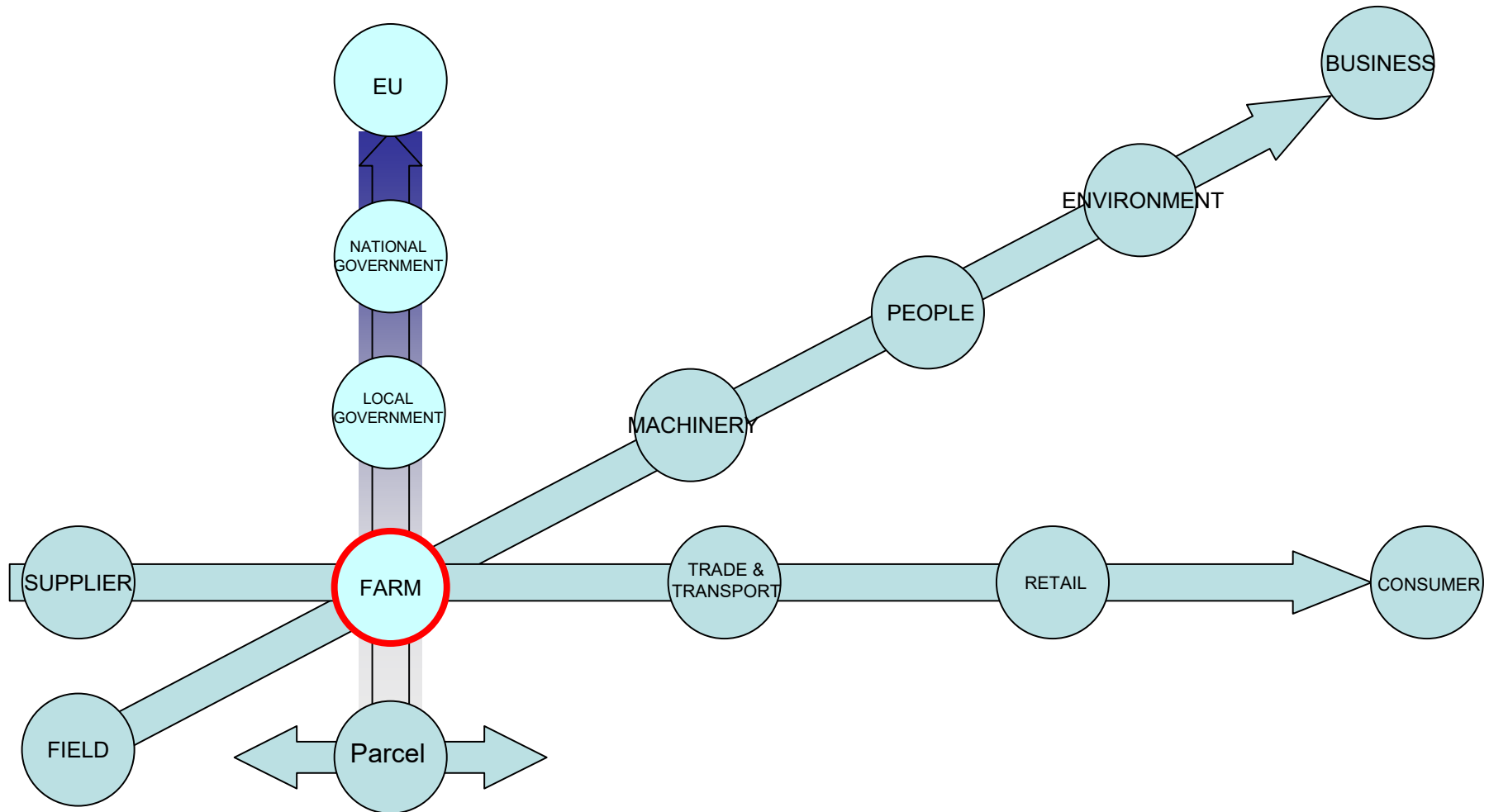
- Information for production



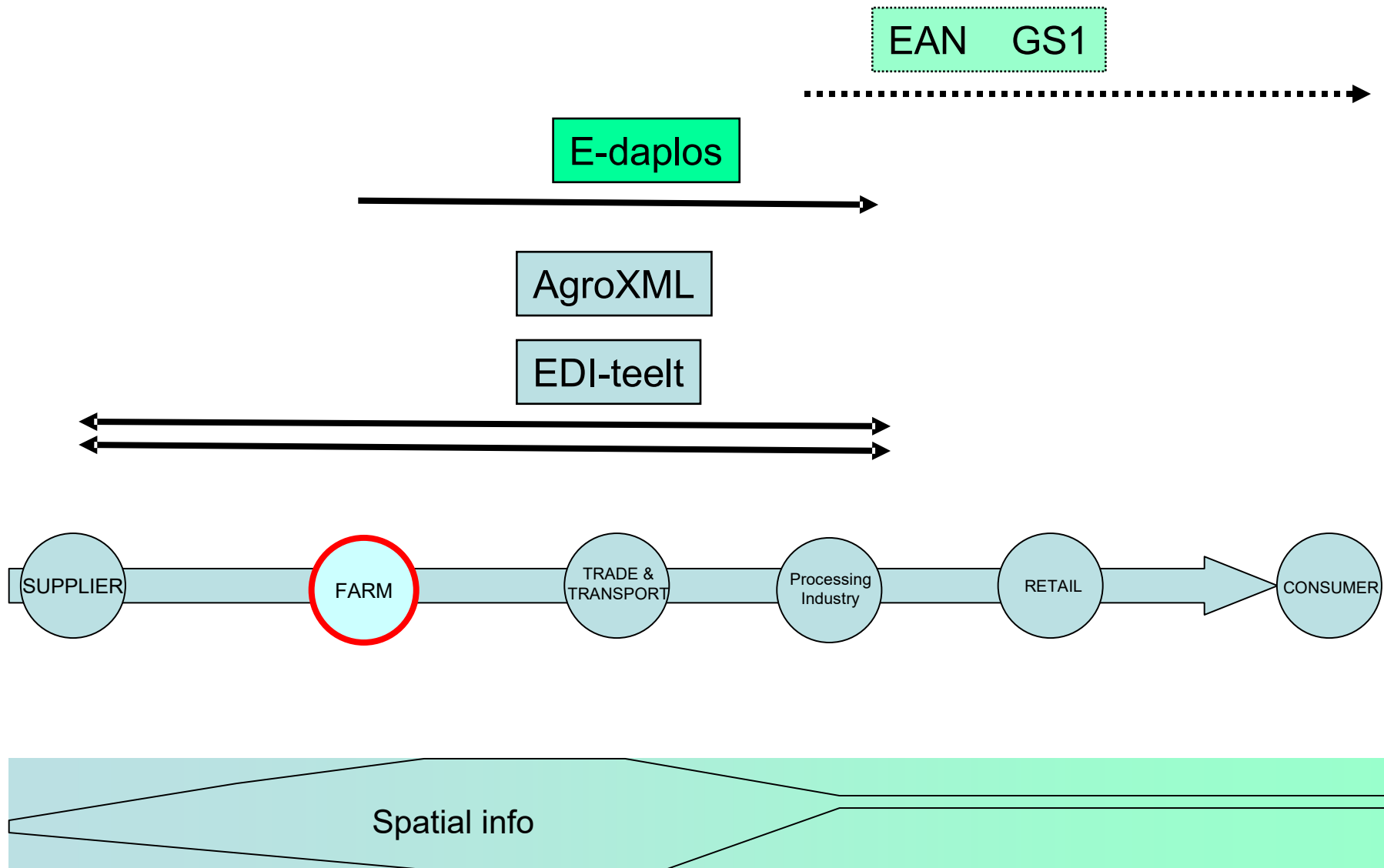
chains and information



Three dimensions of agriculture



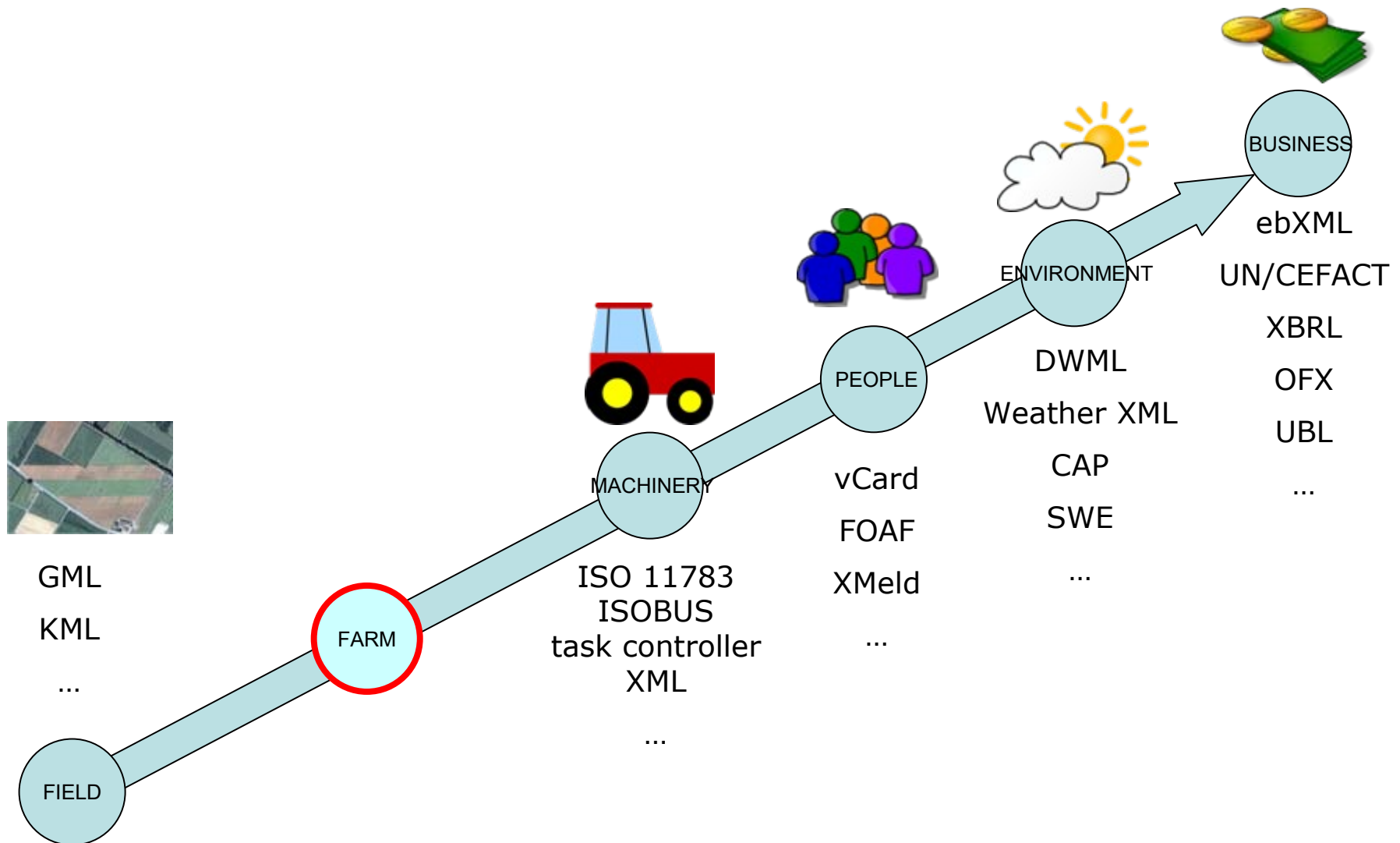
arable farming – electronic messages



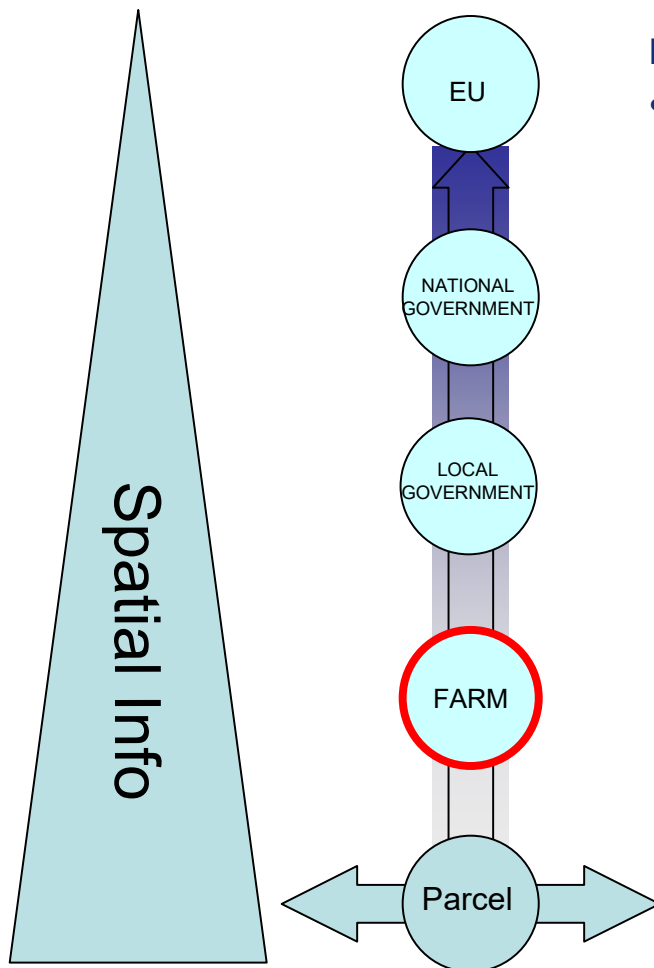
agriculture and spatial objects

- Agriculture is in need for spatial data, for production and product information
- Spatial data is an attribute in agricultural data entity types
- An agro GML data schema is a subset in an agro XML data schema
 - Precision farming
 - Interface to infosystem agro equipment (ISOBUS)
 - Proces control for cultivation, treatment
 - Report excecuted processes of cultivation, treatment
 - Use of external data:
 - Fertilizer
 - Crop protection
 - Soil
 - N images, IR images
 - Bio mass classification
 - Integration of data:
 - Laboratoria analyses
 - Advises
 - Treatment
 - **Reports** (certification, Eurep-GAP)
 - **Regulations gouvernement** (EC CAP)

arable farming data



information for common agricultural policy



- explicitly required by EC1782/2003 and other regulations or,
- pragmatically collected for every-day operation

- For business processes and traceability
- Supplier
 - Species/cultivars
 - Fertilizers/pesticides
 - Feed/pharmaceutical
- Farm
 - Management data
 - Environmental/Sanitary activities
 - Growth/Yield data
 - Marketing
 - Multifunctionality
- Food or product processor
 - Transport/distribution
 - Customer info
 - Consumer info

European Data Exchange in Agriculture

SDIC - AgriXchange

- established on an European Workshop on Data Exchange in Agriculture
- merging of two existing SDICs:
 - Spatial Data Infrastructures for Agricultural and Environmental Purposes (SAEP)
 - SDI for rural activities (RurSDI)
- continue the work of both existing SDICs
- European coverage in representatives:
 - chance to extend the work and go deeply into the specific problems, mainly data specification.
 - support implementation of INSPIRE by public bodies dealing with spatial information in agriculture
- additional contributors welcome

relationship between agriculture and other INSPIRE themes

ANNEX I

1. Coordinate reference systems
2. Geographical grid systems
3. Geographical names
4. Administrative units
5. Addresses
6. Cadastral parcels
7. Transport networks
8. Hydrography
9. Protected sites

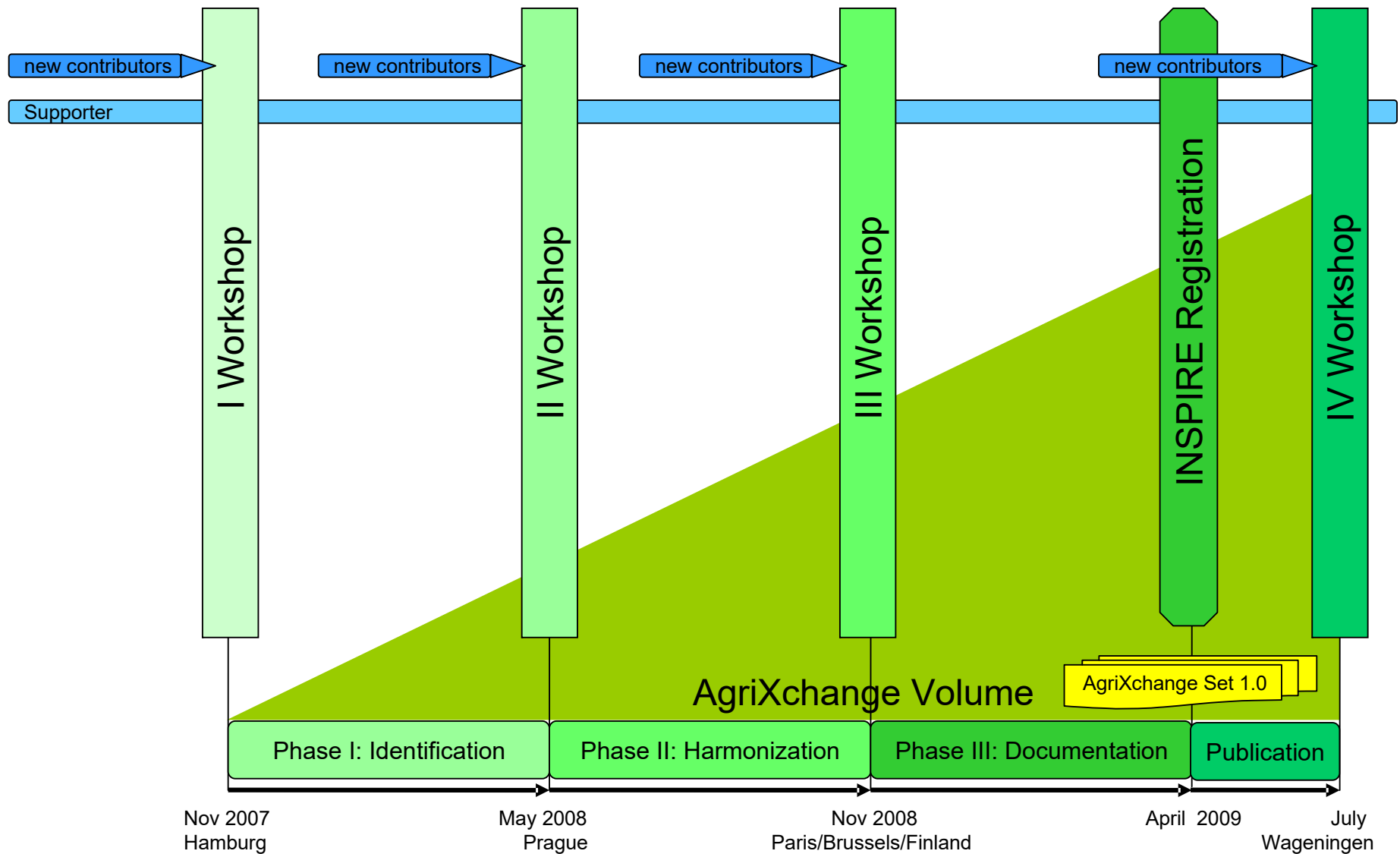
ANNEX II

1. Elevation
2. Land cover
3. Orthoimagery
4. Geology

ANNEX III

1. Statistical units
2. Buildings
3. Soil
4. Land use
5. Human health and safety
6. Utility and governmental services
7. Environmental monitoring facilities
8. Production and industrial facilities
9. Agricultural and aquaculture facilities
10. Population distribution – demography
11. Area management/restriction/regulation zones and reporting units
12. Natural risk zones
13. Atmospheric conditions
14. Meteorological geographical features
15. Oceanographic geographical features
16. Sea regions
17. Bio-geographical regions
18. Habitats and biotopes
19. Species distribution
20. Energy resources
21. Mineral resources

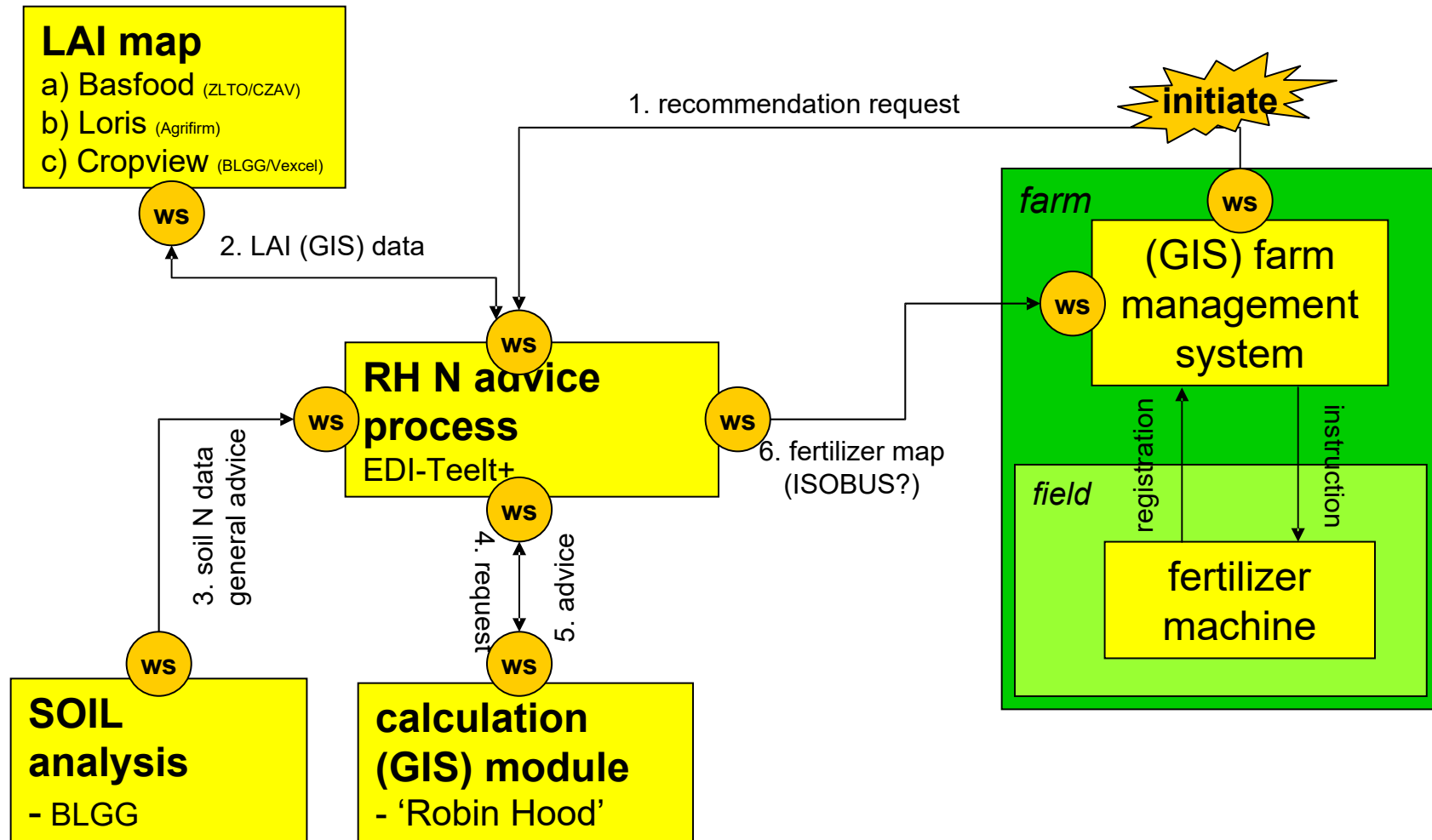
roadmap



Casus / subprojects

- Geofarmer
- GeoFertilizer
- LPIS
- Cattle registration data exchange
- Cattle animal e-passport
- EC-call FP7-KBBE-2009-1-4-03

KodA I&S: geo-fertilizer advice



planning

- 22 -25 September 2008 Lyon
- 6 – 8 July 2009 JIAC Wageningen

