GLOBAL RESEARCH ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES

Integrative Research Group

Paris, January 17-18, 2018

INRA
SCIENCE & IMPACT

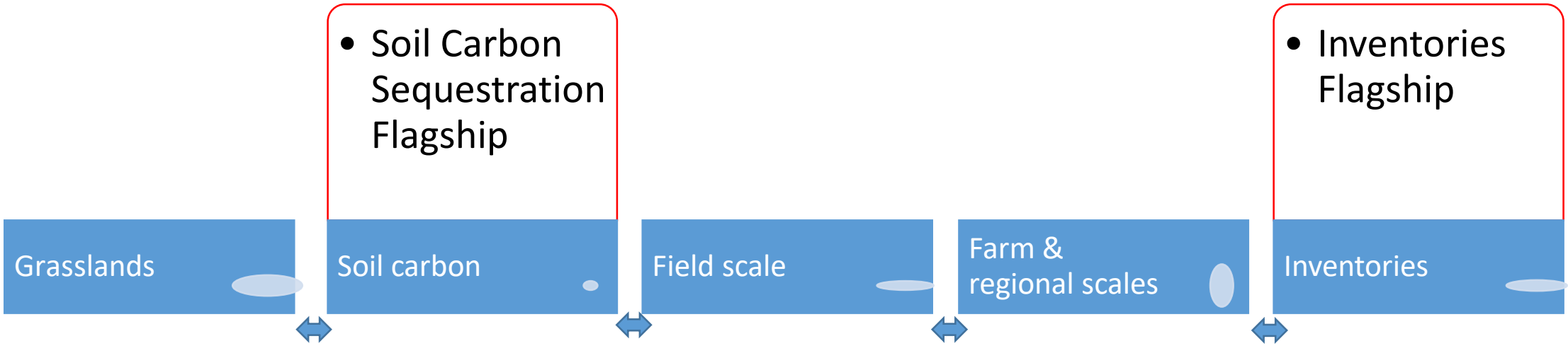
Streamlining IRG structure in the context of Flagship development

- Networks have ongoing role to identify needs of GRA, aid information sharing within the GRA community, and facilitate research collaborations
- Flagships should deliver to specific projects supported by the GRA community
- IRG includes two Flagships (Soil Carbon Sequestration and Inventories)

Proposal by co-chairs

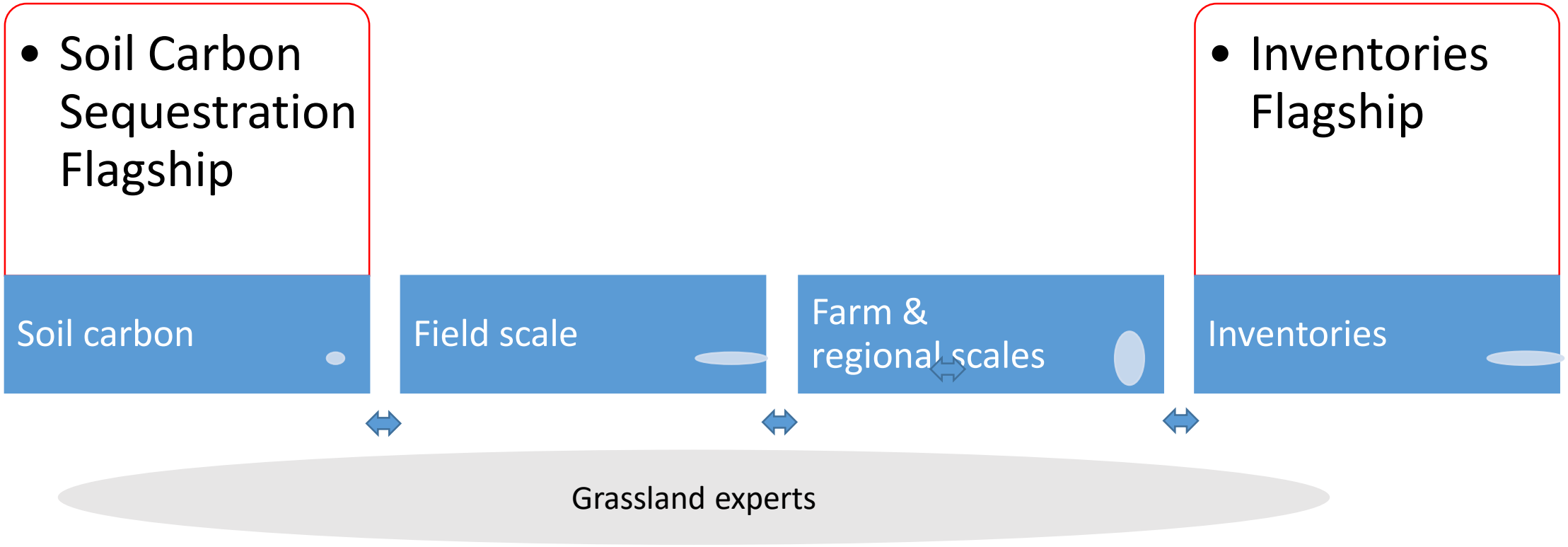
- The Soil C network priority for research collaboration is to further projects within the SCS Flagship
- The Inventory Network priority for research collaboration is to further projects within the Inventory Flagship
- The Grassland Network dissolves (no longer exists) and passes:
  - its soil C related interests to the Carbon Sequestration Network
  - and its integrated livestock-soil GHG interests to the Farm to Regional Scale network.

IRG structure



IRG structure

Regional projects funded through Flagships
Research projects funded through international research calls and grants



Emerging topics

SCS flagship and soil carbon network

- **Funding and partners (proposal development)** co-chairs, all
- **Systematic reviews of impacts of practices on soil carbon** Sweden(lead), Uruguay, UK, US, Spain, Canada, France
- Economics of soil carbon sequestration: cost data (contact points?, typology of activities?→ barriers IIASA (lead and contact others: Dominique UK , Jeff Baldock Australia , US)
- **Survey on which long term sites in GRA countries Analyse soil samples from long term sites, LTAR, ANAEE; Standardized soil carbon data linked to practices (**general call- MAGNET format, sites not yet identified Lead contact with Magnet, GLUTN Rothamsted, ISRIC (hosting date, standarization)

- Rapid assessment of SOC stocks and Indirect methodologies for soil carbon stock change- NZ, US, Australia, Canada
- Microbiome and implications for soil health– US and Canada
- Offset methods meeting international integrity (apart from permanence scaling down with 25 yrs) and carbon markets: e.g. Australia, Alberta, California, create a workshop (JFS lead & Australia)
- Novel sequestration options, e.g. biochar (not considered for the time being)
- FTR (farm to regional modelling network) economics, costs -> adaptation mitigation and productivity;
    - -collection of farms where we have enough data to validate models -A case study, minimun data to describe a farm Canada
    - - Library of case studies
- Global modelling land degradation and climate change, Land use change and NDCs CIRCASA
- Training new generation of modellers NZ,US (grants)
- Organic soils (peatlands, black soils) cropland research group

Inventories flagship and inventories network

- Bottom-up inventories vs. top down- shared farm typologies , ccafs , network co-leads,
- Reduced complexity models, including soil carbon field network
- GRAMP for Tier 3, using ensembles of models UK, field network
- Representing mitigation options in higher TIER methodologies

NDCs interface mechanism

How to meet with national experts in charge of NDC development?

A GRA scale issue, to be organized

Linking flagshipsto NDC development

LRG. Enteric methane flagship

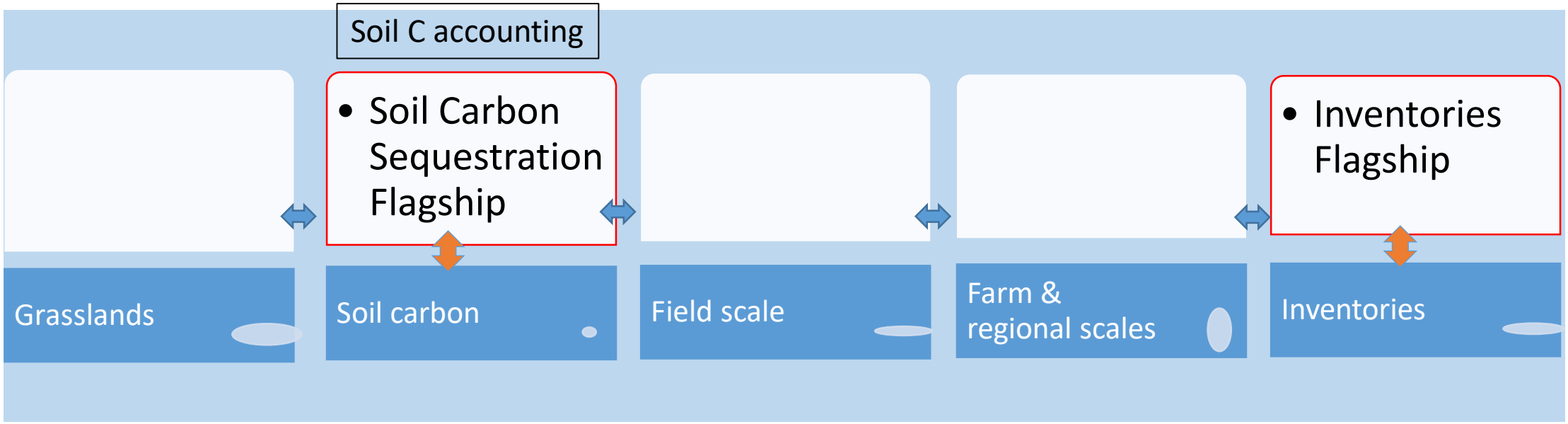
CRG. Nitrous oxide Flagship

PRRG. Rice mitigation management options Flagship

NDC development and national communications
How inventories and mitigation forward looking
With national inventories experts
Ongoing activity of GRA partners (regional meetings?)

Circular economy Flagship

IRG



UNFCCC subsidiary bodies

- COP23: decision on SBSTA and SB on implementation to include in their work program several aspects of
- Have case studies from GRA
- Effort to be organized by Andi Reisinger, also with CCAFS
- Contributions on soils could be organized by IRG, SCS flagship