



Innovation systems

Making science work
for farmers ... and beyond

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Current drivers ...



Globalisation
(knowledge
networks, markets)

Markets (consumption,
supermarkets, integration)

Policy (decentralisation,
privatisation)

Institutions (local, national,
regional, global)

Population pressure
Climate change

Local diversity and context
specific challenges

Call for being



- More innovative
- More varied and “options” oriented
- More adapted and flexible
 - To develop sustainable ways for
 - Food security
 - Income generation
 - Poverty alleviation
 - Natural resource conservation

From single components to options for integration



- Station (controlled) results often « disappointing » under farmer's conditions
- Cumulative effect of improvements e.g. water-fertility-weeds (in lowland rice systems)
- Low precision systems require:
 - Diversity of alternative 'options' for integration
 - Farmers' early involvement for local adaptation of possible improvements

From Aid to Trade



- Growing international (donor) interest in agricultural R & D
- BUT:
 - Market-driven (inclusive) development
 - Benefits for both « the poor » and private sectors
 - North and South and South-South trade

« Aid though trade »

From Production to Agribusiness



- Market first: demand driven and pull
- Entrepreneurial spirit
- Linking farmers to other value chain actors, like processors and sellers, retailers, ...
- Vertical integration of farmers into markets
- Public-Private partnerships
- Value chain efficiency and agri-food systems

From Results to Impact



- Emphasis on development outcomes in stead of research outputs
- Act locally and market-led specific
 - But within national/regional/international context/issues
 - So to upscale
 - And to make significant impact.

From Research to Innovation



- Technology: only 1 dimension of current issues
- Organisational and management dimensions are often the “root-cause”
- Innovation = more than a “Product” but a “Process” of bringing:
 - New products
 - New ways of working
 - New organisational models

Into economic use

Building competences

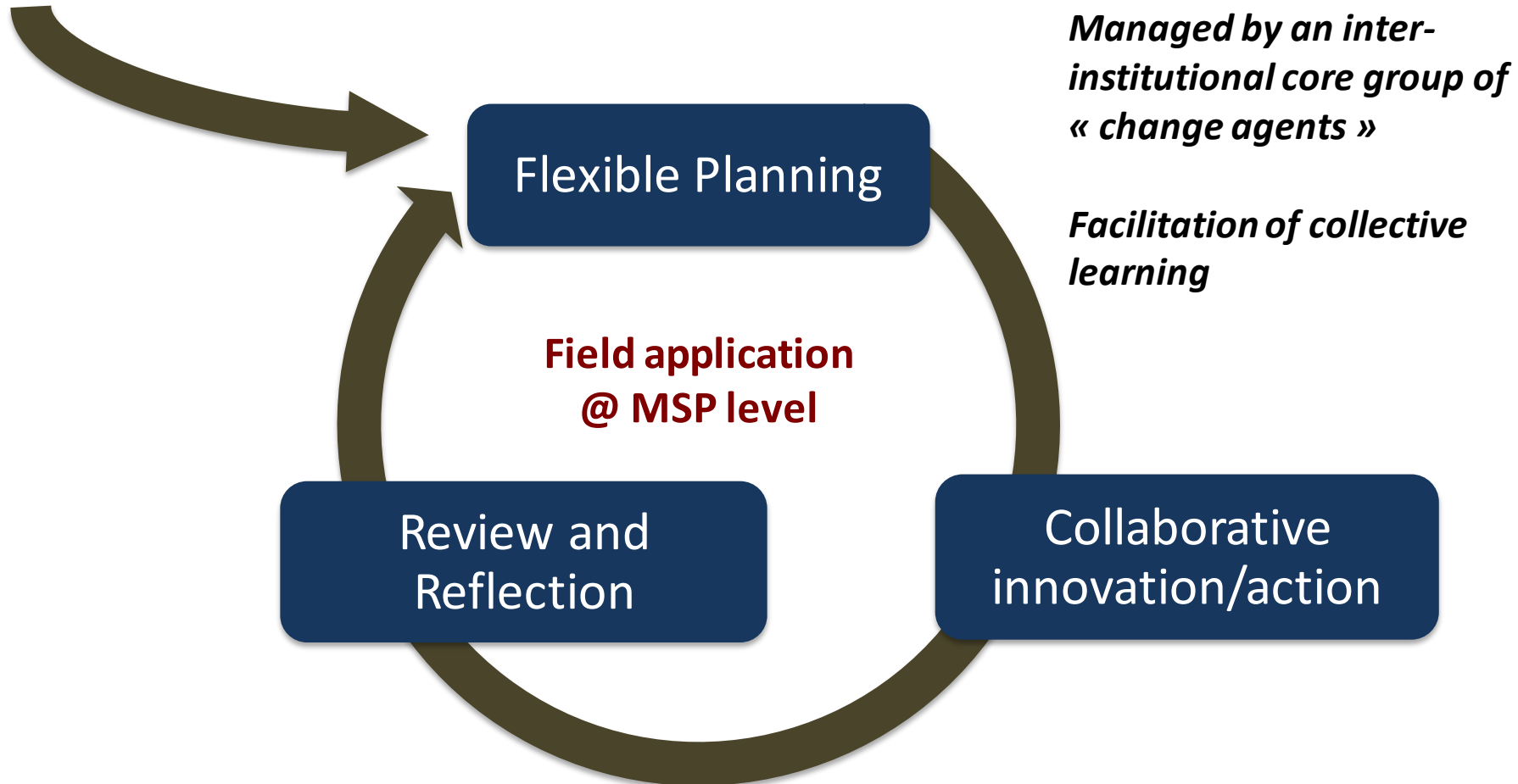


- To link research and education with development
- For collective Innovation and Learning in agri-food systems
- Beyond « individual » competences
 - Collective « team » action and learning
 - Change at organisational level
 - Building partnerships linking Research, Advisory services, Higher education, Farmer organisations, and the Private sector

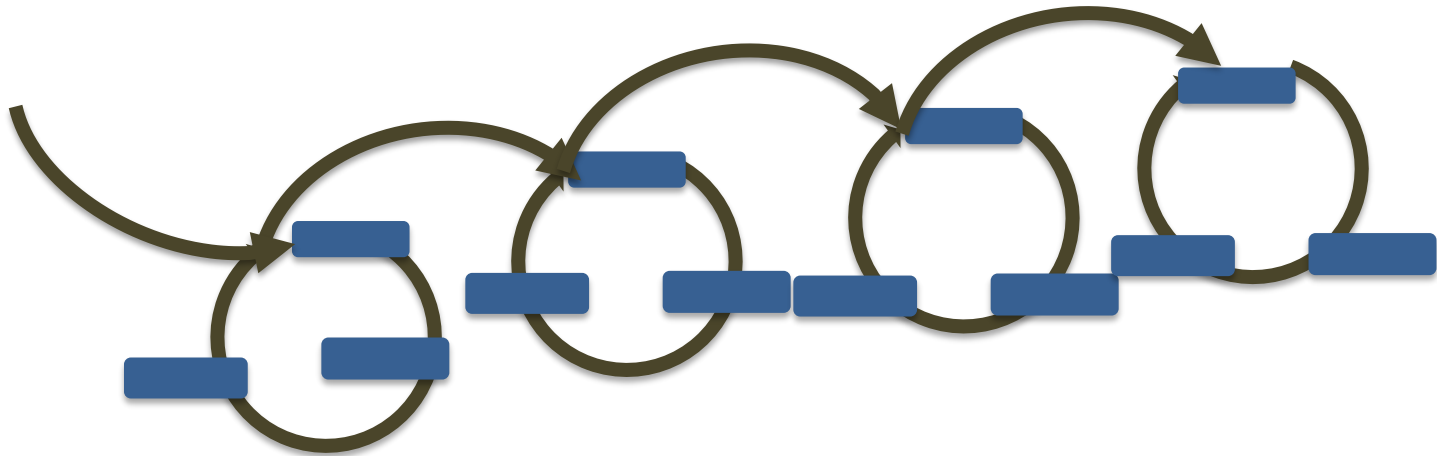
Learning for Innovation (L4I) Cycle



Initiation

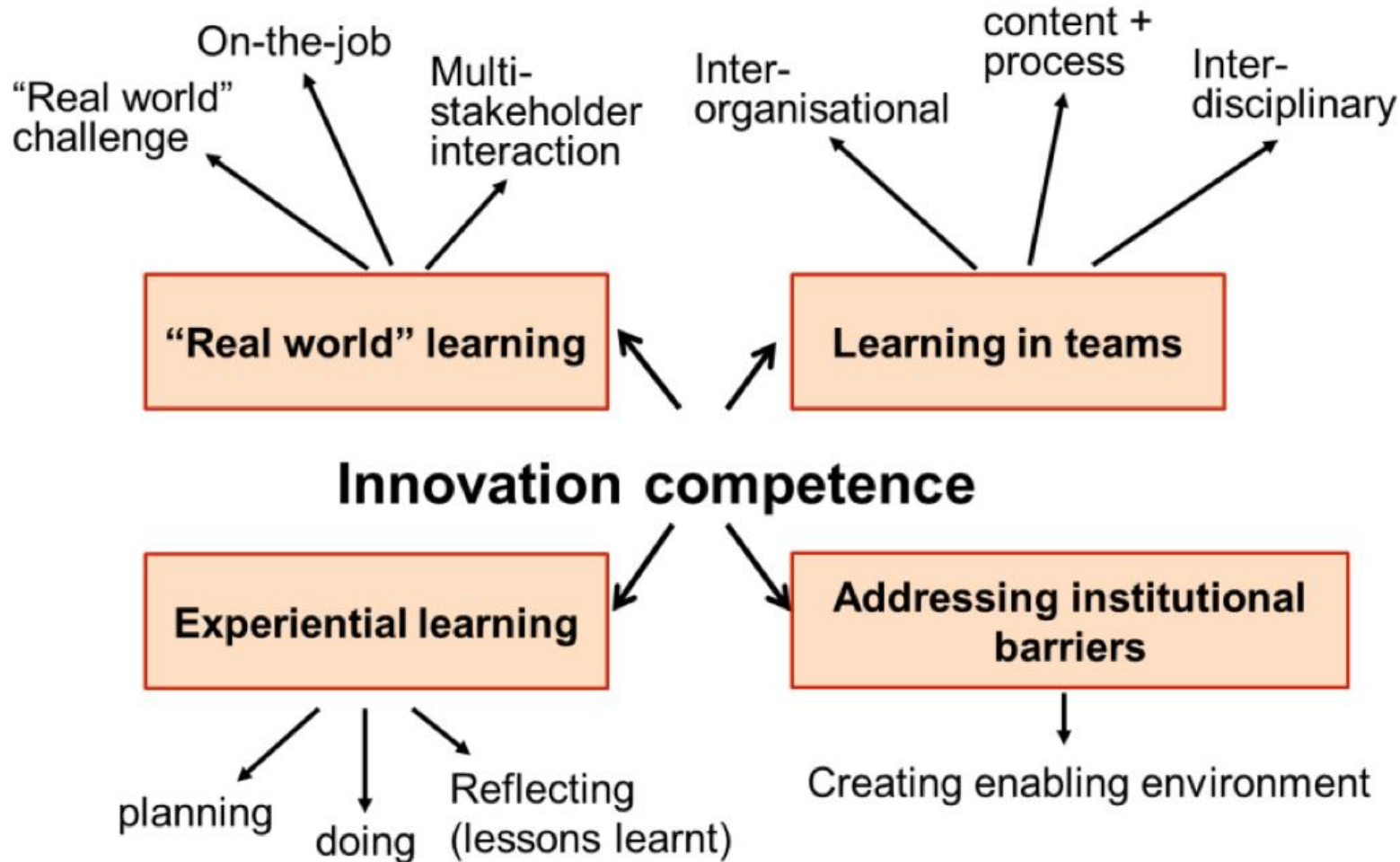


Repeated L4I cycles



**Joint action learning addressing common
development challenge**

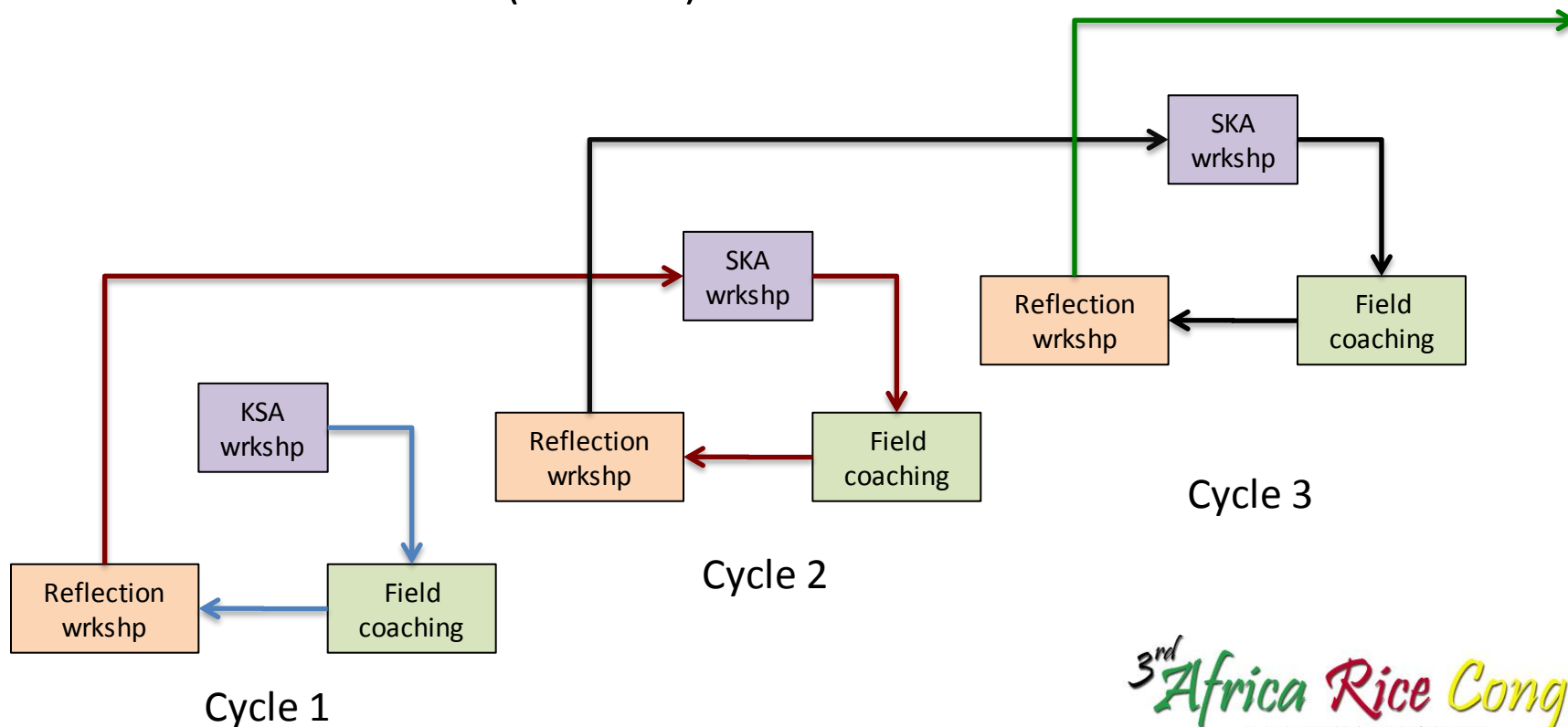
Capacities required of inter-institutional core teams



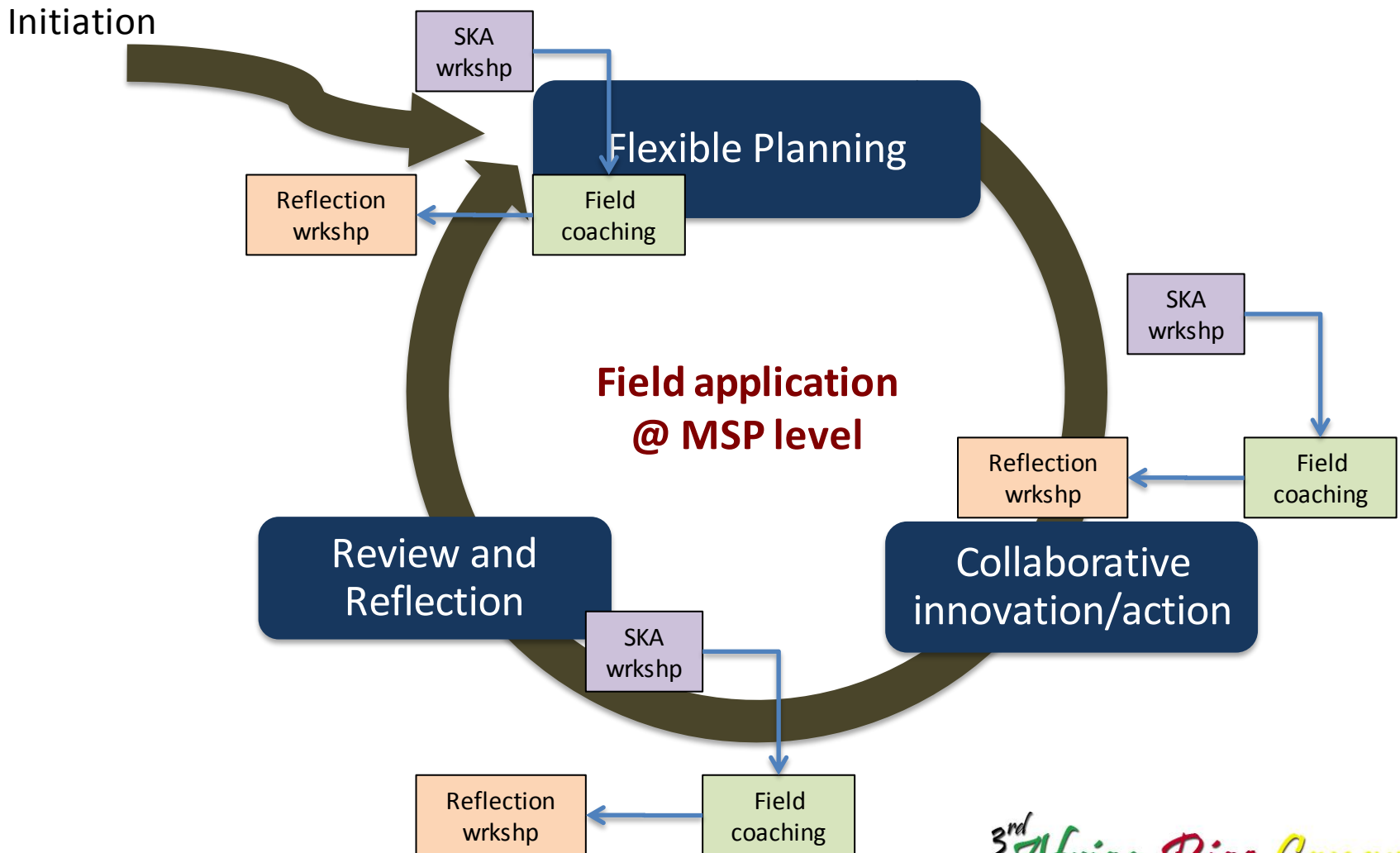
Capacity Development (CD) of the teams



- Action-learning cycles
 - Knowledge
 - Skills
 - Attitude (Mindset)



Combining L4I cycles with CD for management teams



Thank you