

# → EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT

## Agriculture and Rural Development

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# Outlook on EO4SD Capacity Building Activities

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Collaboration with EO4SD partners gratefully acknowledged



Capacitate project/program teams to

- Appreciate services and how these can support their mission pursuit
- Understand the Quality of Service
- Obtain sufficient insight to become forward-looking and opportunity-aware
- Eventually mainstream applicable services
- Become advocate of the impartiality that EO services can bring

Wow!

When  
(not)?

What  
if?

Use it!

## Relentless focus on collaboration and engagement with stakeholder

### Understand stakeholder's

- mission and geography,
- decision processes,
- information flows that support these, and
- staff task hierarchy.

### Identify opportunities for geospatial technology to improve stakeholder's

- information flows, and
- decision processes.

### Devise impact pathways for achievement

- training timing, format and content, and
- co-develop staff/staff interfaces and roles.

## Understand risks

- Misunderstood skill set levels
- Suboptimal alignment of staff with mission
- Technology or methods not available *in situ*

## Monitor capacity growth

## Cyclic engagement

- Evaluate collaboration on impact & pathway
- Repeat and adjust

## CB is a long-term endeavour

- This infers from previous bullet points

# Projections onto EO4SD



In EO4SD, the “stakeholder” is often a program or project ⇒ adds organisational complexity and potentially harms longevity ambitions.

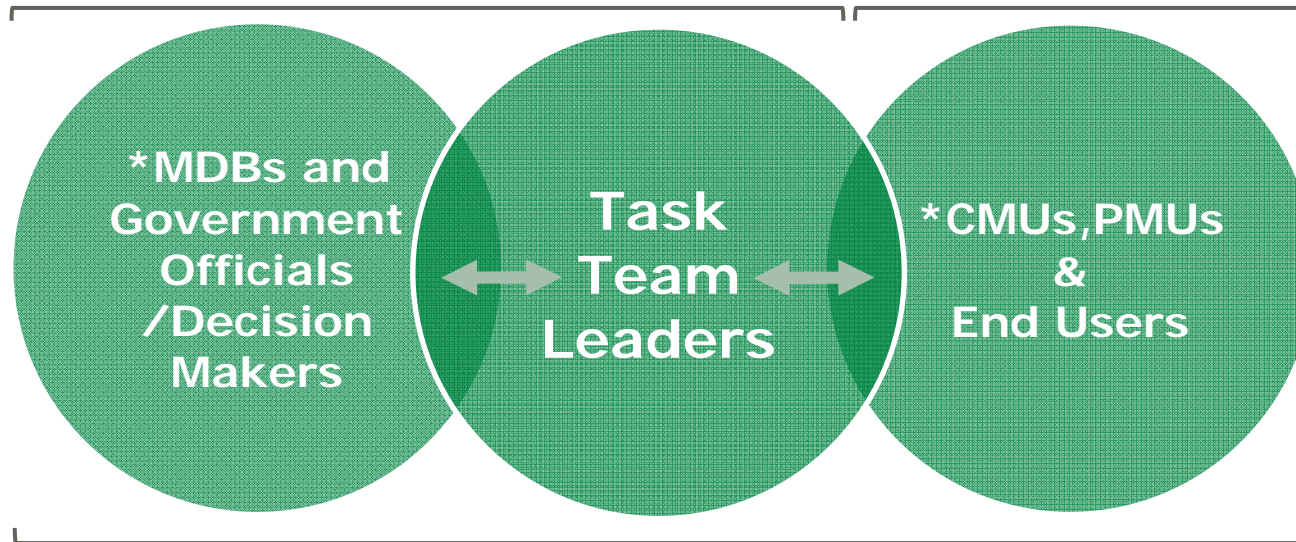
All principles transposed onto EO4SD stakeholder world

# Capacity Building Audiences & Actions



**High Level Capacity Building:** 1-day awareness events followed by Q&A sessions, recorded videos, factsheets

**Hands-on Capacity Building:** E-learning packages, MOOCs, Local workshops in Ethiopia, Burkina Faso, Bolivia



- **\*MDB:** Multilateral Development Bank
- **\*CMU:** Country Management Unit
- **\*PMU:** Project/Program Management Unit

**General Awareness:** Website (news), Brochures, Knowledge portal



# CB events



	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
Ph1 Demonstration Workshop, Latin America												
Ph1 Demonstration Workshop, Uganda												
Ph1 Demonstration Workshop, Morocco												
Ph2 Local Workshop I, Ethiopia												
Ph2 Local Workshop I, Burkina Faso/Morocco												
IAP 2nd workshop, Nairobi												
Infosession, Washington, WB and IADB												
Infosession, Manila, ADB												
Ph2 Local Workshop I, Bolivia												
Infosession, Rome, IFAD												
ITC Distance Course on EO Science												
CB review meeting with consortium partners												at the end of year 1

↻ 1 yr  
↻ 1 yr  
  
↻ 1 yr

- Demonstration workshops
- Local workshop
- Infosession (high level training)
- Tentative (not enough information available)

## Understand

- information flows
- staff task hierarchy
- instable political climate

## *Trainer tools*

*Usually clear at data level, not so at higher info/knowledge levels*

*Emphasize good practice, self-review, checks & balances*

*Esp. a long-term concern in mandated agencies*



## Opportunities for EO & GEO

- information flows
- decision processes

## *Trainer tools*

*Identified by service providers*

*Ditto, but deserves reality check in later engagement*

*Overall: demo, showcase in stakeholder setting, allow hands-on, discuss use*

*Warn against methodical abuse*

## Impact pathways

Training timing/format/content

Staff/staff interfaces

## *Trainer tools*

*Supervised co-design,  
Questionnaires,  
Argumentative  
structure around  
application(s)*

*Professional code  
Emphasize roles in QC  
Round table to  
manage expectations*

## Risks

Skill set levels

Misalignment with mission

Little staff role perception

Poor staff/staff interfaces

Technology or methods not available *in situ*

Professional motivation and attitude

## *Trainer tools*

*Very context-sensitive*

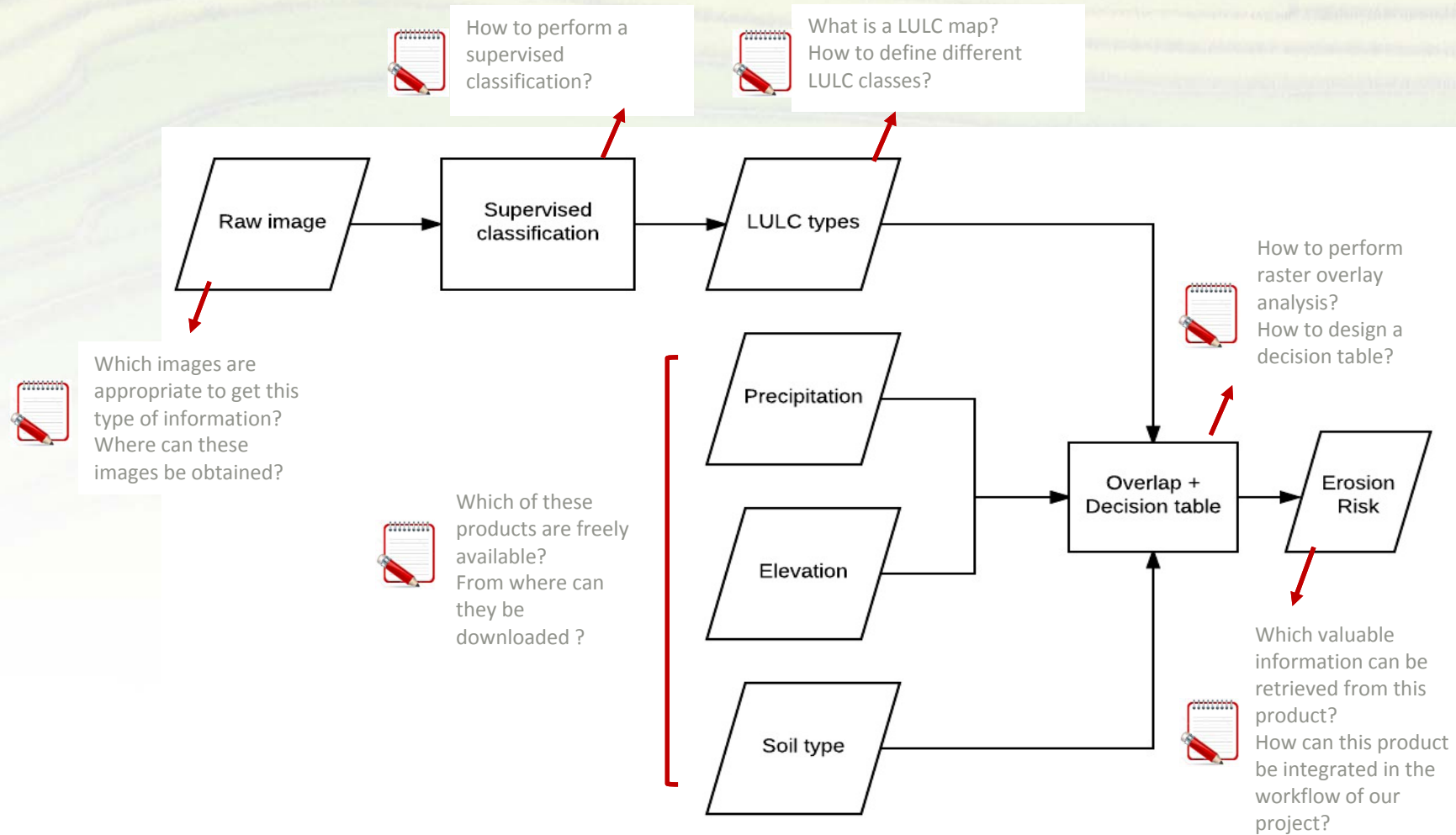
*Experience helps*

*Cultural sensors too*

*Leave for final  
discussion ...*



# For example, on "Erosion risk"



# Tentative LWS agenda

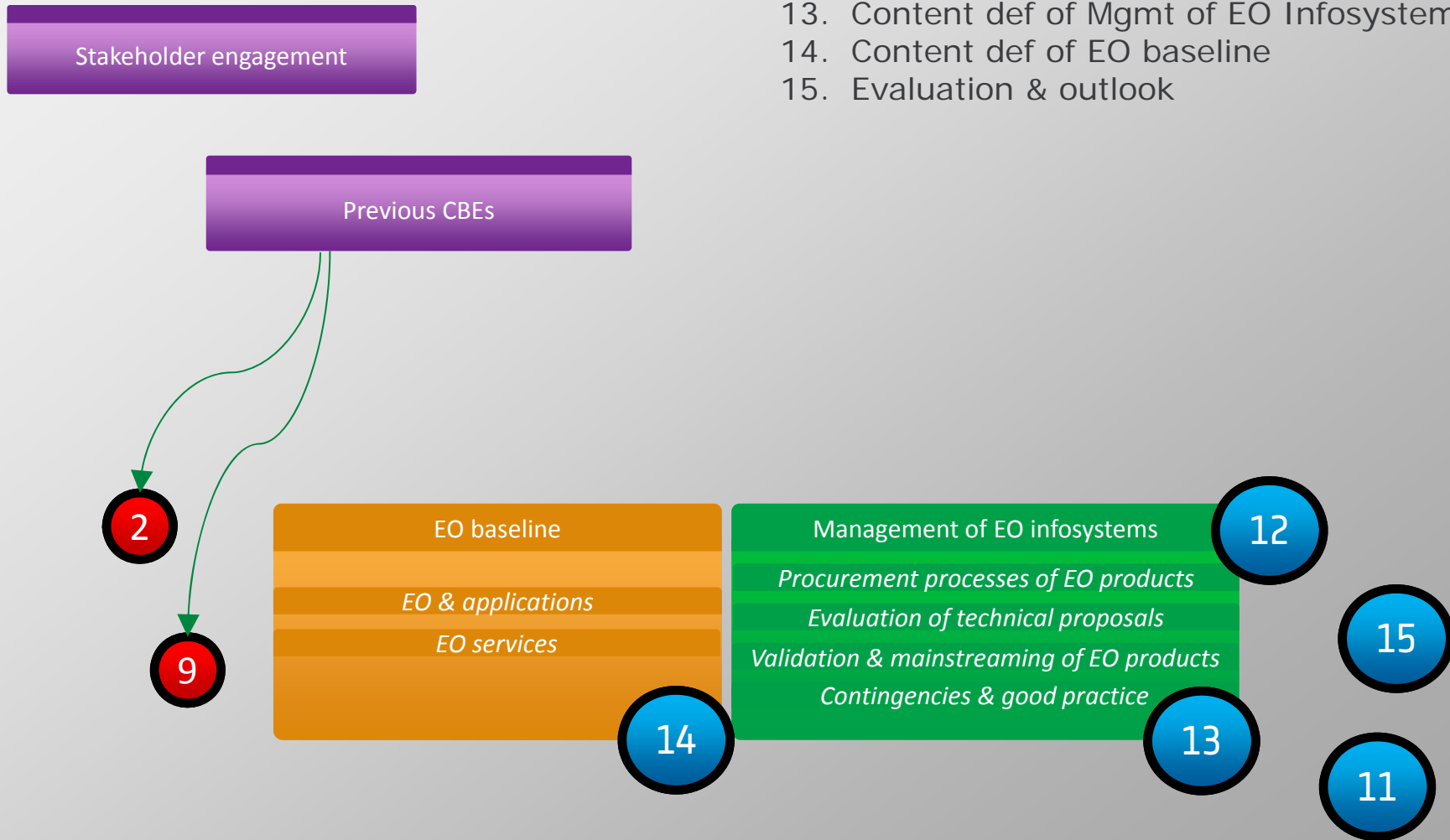


## Example Agenda for LWS in Burkina Faso

Expected number of participants (tentative)		End users			Responsible
		PNGT-2	PIF	Neer-Tamba	
15		15		10	
<b>Day 1: Principles of GIS</b>					
08:45 - 10:30	Spatial data models			x	ITC
10:45 - 12:30	Spatial analysis (vector + raster operations)	x	x	x	ITC
13:00 - 15:00	Hands-on QGIS	x	x	x	ITC
15:15 - 17:00	Hands-on Lizard,	x	x	x	N&S
<b>Day 2: Principles of EO and RS</b>					
08:45 - 10:30	Review Physics (EM radiation)			x	ITC
10:45 - 12:30	State of the art sensors & images	x	x	x	ITC/Satelligence
13:00 - 15:00	Image analysis (visual interpretation)	x	x	x	ITC
15:15 - 17:00	Image analysis (classification)	x	x	x	
<b>Day 3: EO4SD services</b>					
08:45 - 10:30	Land Cover/Use Change	x	x	x	GeoVille
10:45 - 12:30	Vegetation Dynamics	x	x	x	GeoVille,
	Land productivity (Biomass)	x	x	x	eLeaf
13:00 - 17:00	Hands on WOIS, Sen2Agri	x	x	x	GeoVille, DHI GRAS
<b>Day 4: EO4SD services</b>					
08:45 - 10:30	Soil erosion	x	x	x	GeoVille
10:45 - 12:30	Agricultural production	x	x	x	Satelligence
13:00 - 15:00	Combination of products/services studying the impact on specific domains (deforestation, agricultural production, land degradation assessment)	x	x	x	GeoVille, eLeaf
15:15 - 16:00	Available data, available tools	x	x	x	GeoVille

# Workflow for Infosession

- 2. Overall learning objectives per service
- 9. Infosession strategy
- 11. Define mainstreaming strategy
- 12. Outcomes def of infosession
- 13. Content def of Mgmt of EO Infosystems
- 14. Content def of EO baseline
- 15. Evaluation & outlook



# Discussion invited



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