

## How to integrate research in ICT4D projects: a different approach

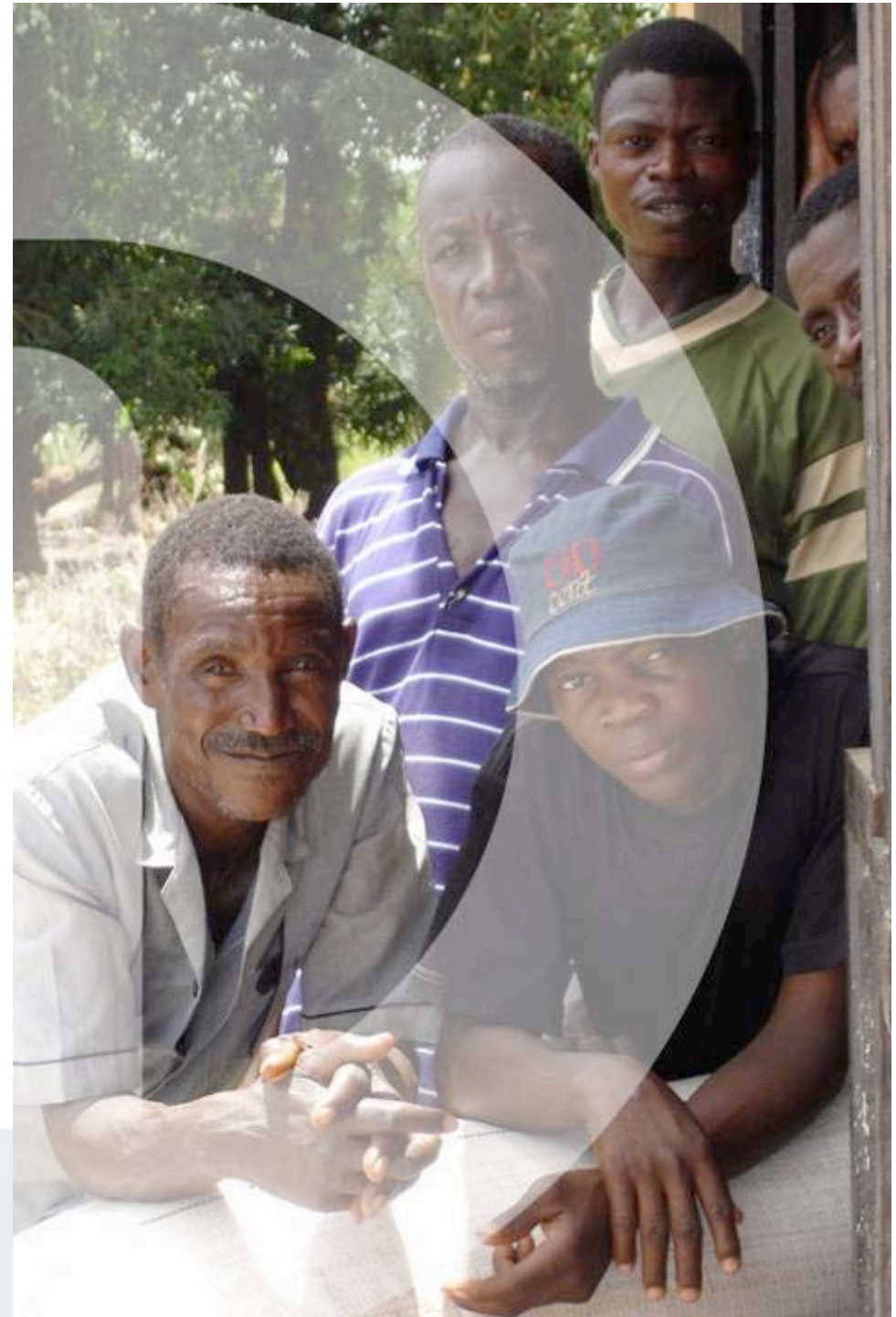
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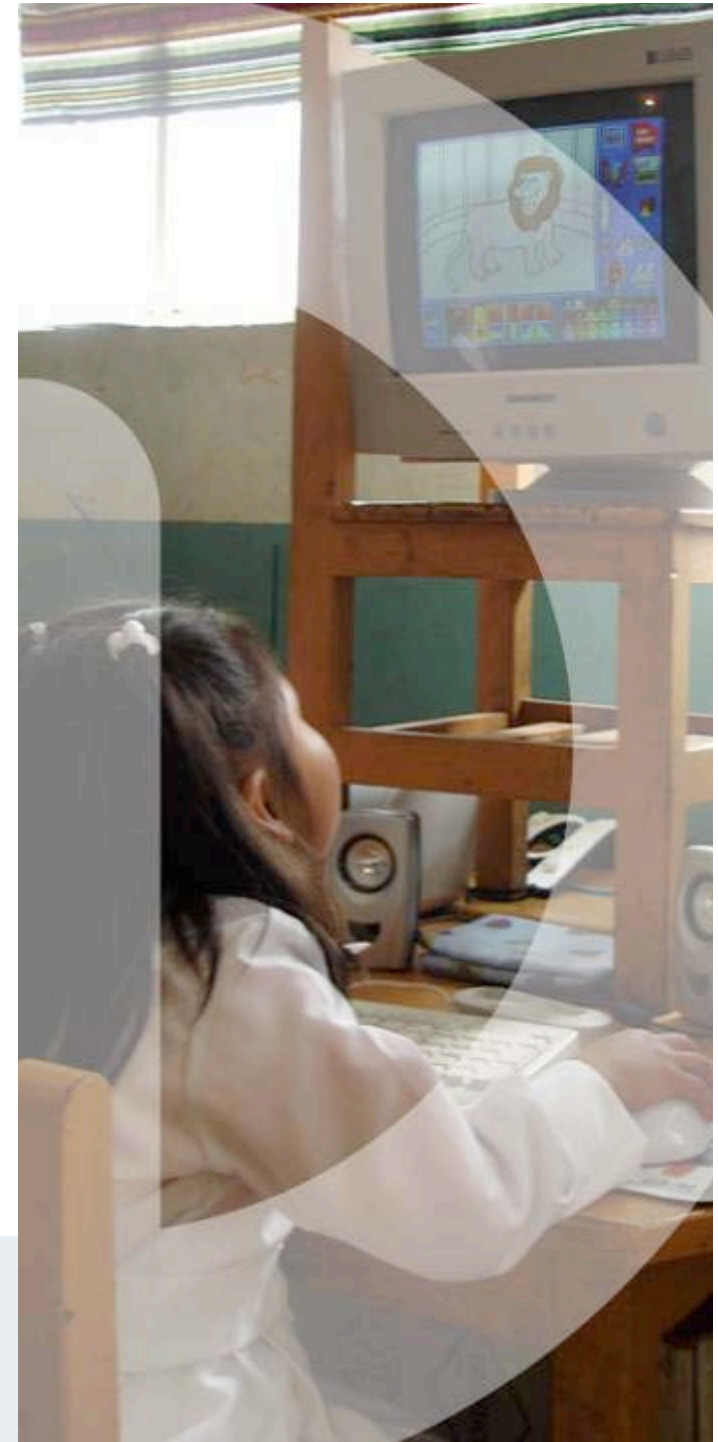
*EuroAfrica-ICT Group*

*Brussels*



## Agenda

1. Brief introduction IICD
2. Research in IICD
3. Example





## Profile II CD

- Independent non-profit organisation specialised in ICT for development founded by the Ministry of Foreign Affairs (1996)
- Currently involved in Bolivia, Burkina Faso, Ecuador, Ghana, Jamaica, Mali, Tanzania, Uganda and Zambia
- Focussing on livelihoods (agriculture), education, health, governance and environment
- Financially supported by DGIS, DFID, SDC, Cordaid, Hivos and PSO





## Mission

IICD assists people in developing countries to create practical and sustainable solutions that connect people and enable them to benefit from ICT to improve their livelihoods and quality of life



## Goals

IICD's mission is supported by the following goals:

- Empowering local organisations and stakeholders to make effective use of ICT on their own terms
- Catalysing lessons learned and sharing knowledge on the use of ICT in a development context



## Work on the ground: ICT and health

- Exchange of medical knowledge
- Medical administration (patients' records)



*HMIS, Uganda*



*IKON, Mali*



## Comprehensive approach

- Country programmes;
  - Roundtable workshops (needs analysis & awareness)
  - Project support (seed funds)
  - Capacity building
  - Monitoring & evaluation
  - Advocacy & lobbying (through local networks)
  - Policy making (through local networks)
- Knowledge sharing & expertise building;
  - Harvesting and dissemination of experiences
  - Research
  - Knowledge sharing on an international level





## Building on expertise through knowledge sharing and harvesting

### Harvesting

- Impact studies (Bolivia, livelihoods, education)
- Publications on themes (Rural access, policy processes)
- iConnect series and ebulletin

### Knowledge exchange

- Cross Country Learning Events
- South South Exchange
- Online knowledge sharing (Dgroup, iConnect)
- Public events such as conferences



## Research

- Driven by practice
- IICD is not a research institute
- IICD
  - verifies what it does
  - Evaluate through a self-evaluation system of partners (M&E)
  - Compare with other developments
    - Analyse what we do and compare with other developments in the sector (project briefs versus sector briefs; impact studies)
    - Bench marking
    - Keep abreast with developments (innovation)
    - Special projects such as CBICT with ESA – TNO – ActNow - Avanti Communications



## Self evaluation system

Collection and analysis of evaluation results on effectiveness of IICD and the development impact on end users.

### Tools:

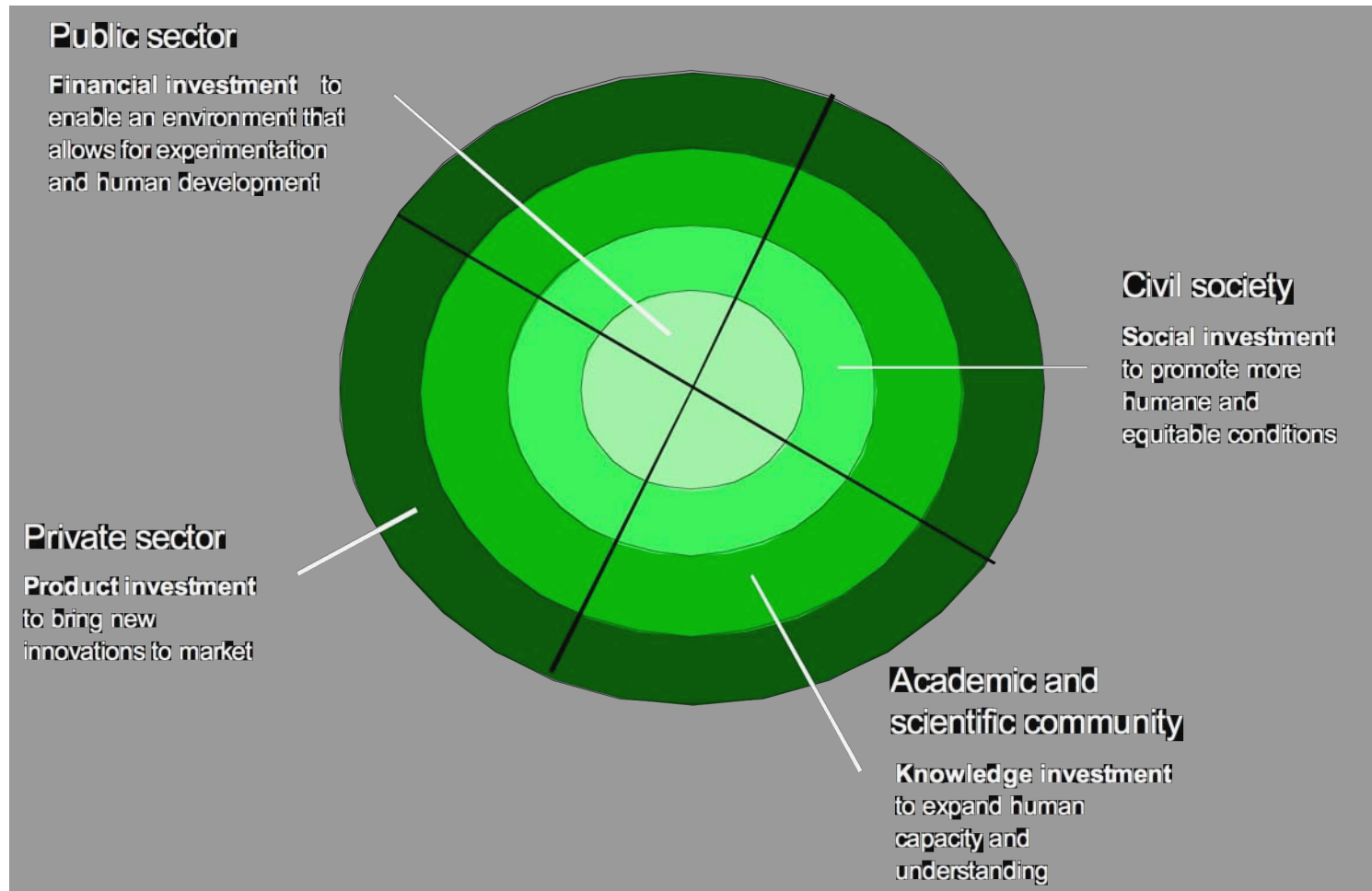
- online M&E system,
- Focus Group Meetings,
- evaluation reports, etc.

### Highlights in 2006:

- 12 Focus Group Meetings
- 9 country evaluation reports
- 2 Output-to-Purpose Reviews (projects)
- 12,000 questionnaires filled out in total



# Roles of different partners





## Main goal

Define a reference model that supports the production and use of sat comms in such a context.





## Main challenges

1. What are the sectors that can benefit from the capacity building projects through ICTs
2. In which one(s) can sat com have an added value
3. What is the description of these sectors
4. Is there a reference model for successful capacity building projects using satcom
5. How to validate the reference model.





## Outcome

- Framework or reference model will be built to successfully introduce satcom element in capacity building projects
- This framework can be applied in future CB projects



# Task 1

Identification and selection of potential CB sectors



State of the art

Round-Table Sectors Definition

	Action lines			
	User environment	Target applications	Utilisation scenarios	Background activities
Definition Sector 1				
Definition Sector 2				
Definition Sector 3				
Definition Sector 4				
Definition Sector 5				

List of potential sectors



criteria for the selection and associated benchmarking process

Criteria for selection  
Proposal focus sectors



Approval ESA

Task report

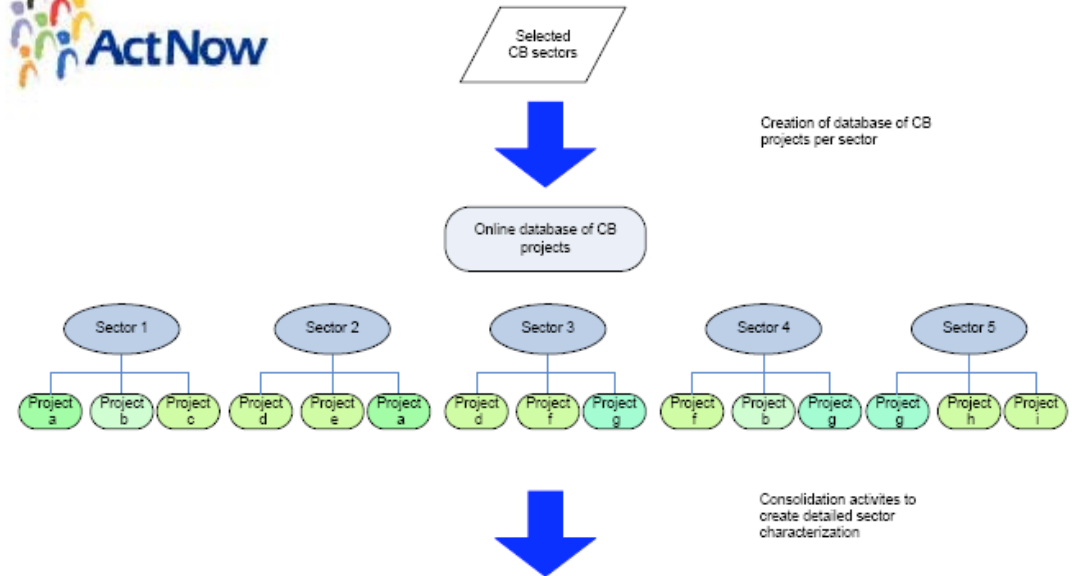
### Outputs of Task 1:

- List of potential sectors under which CB initiatives can be carried out
- List of criteria for selection
- Proposal for focus sectors
- Task report

Figure 1: Study logic of Task 1

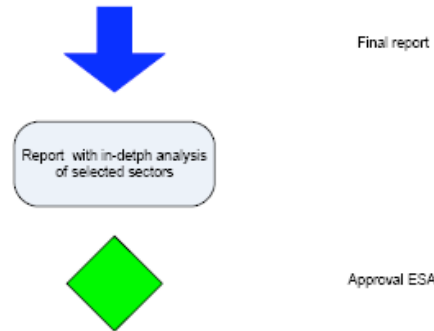
# Task 2

## characterization of selected sectors



	Action lines						Risk elements			
	Users	Others stakeholders	Workflows in CB activities	Requirements definition	Funding mechanisms	Financial planning	Examples best practices	Structural risk	Strategic risk	Technical risk
Sector 1										
Sector 2										
Sector 3										
Sector 4										
Sector 5										

- Outputs of Task 2:**
- Online database of CB projects
  - Task report with in-depth characterization of sectors



## Task 3

### Definition of Reference model for Capacity Building projects

#### Outputs of Task 3:

- Reference model (electronic handbook)
- Task report



Explicit authorisation by ESA to proceed.



Selection of assessment projects



Online questionnaire and interviews



Definition reference model

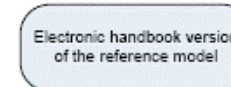
Reference model
Strategic aspects
Technology infrastructures
Content
Human factors
System development
Operations
Management



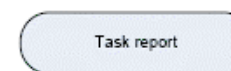
Review of reference model by relevant stakeholders



Produce electronic handbook



Write task report



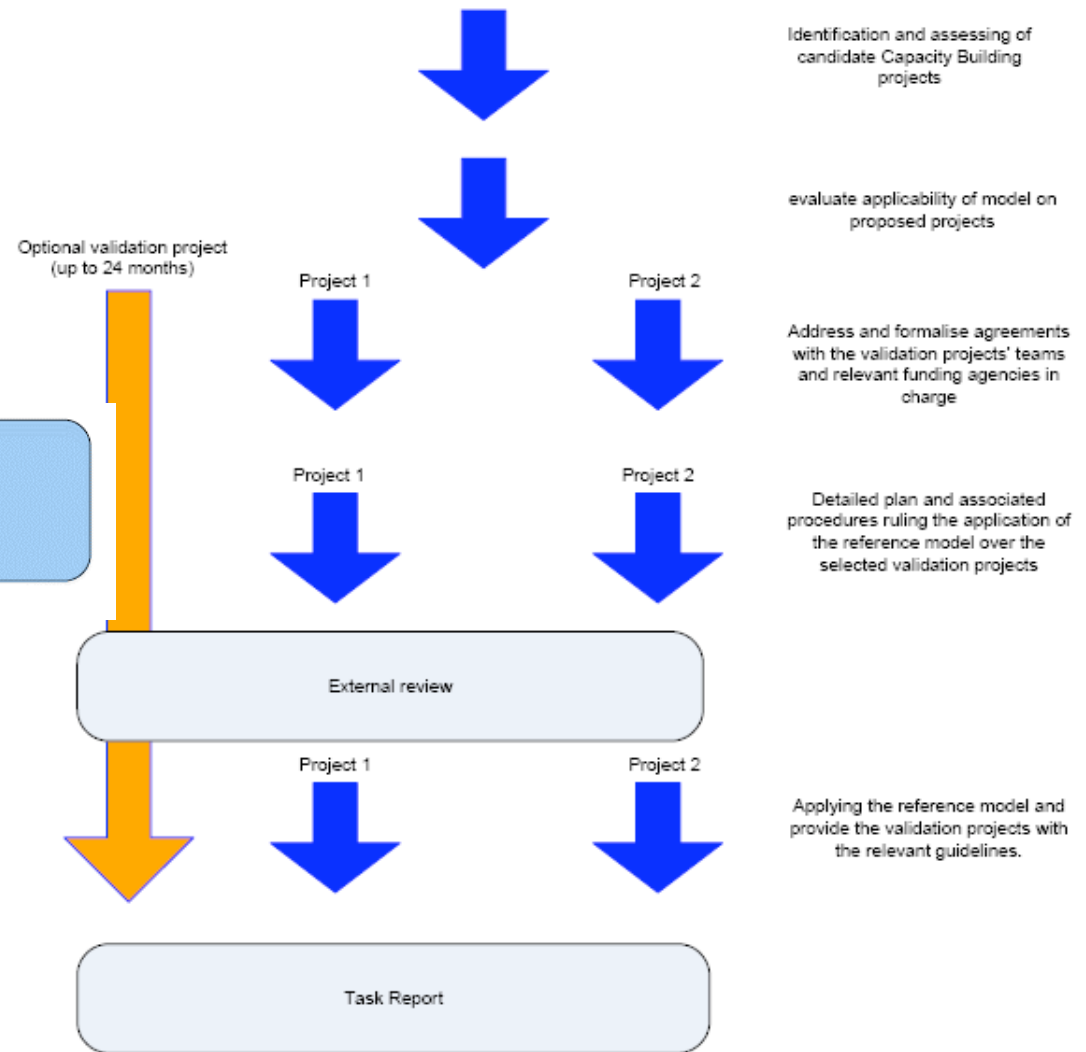
# Task 4

## Application and assessment of reference model

### Outputs of Task 4:

- External review report
- Task report with overall conclusions and recommendations following the activities of Task 4.

First Issue of reference model
Strategic aspects
Technology infrastructures
Content
Human factors
System development
Operations
Management

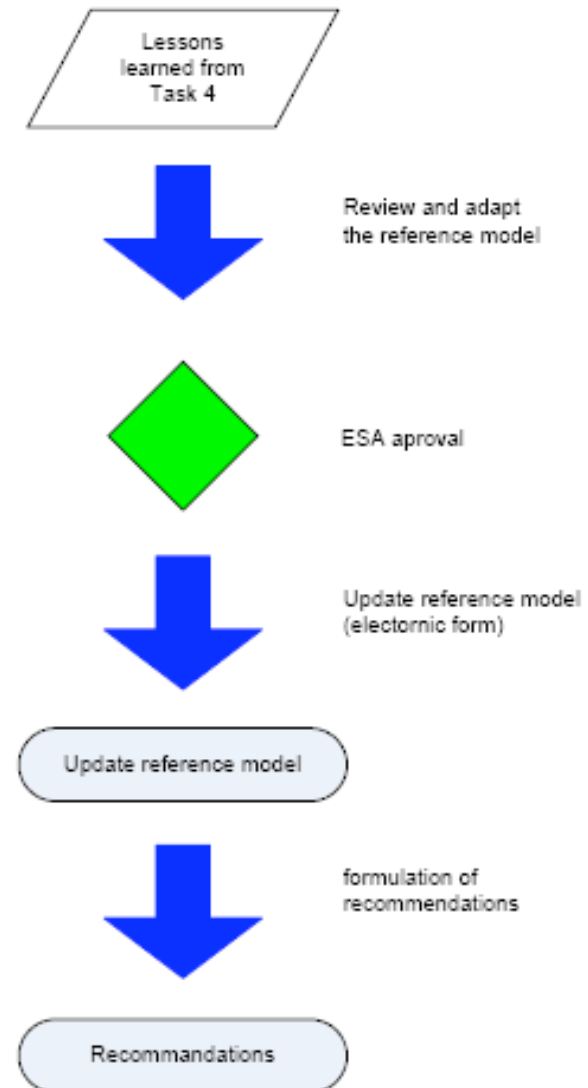


## Task 5

Review and finalisation of the reference model and recommendations

### Outputs of Task 5:

- Updated reference model
- Recommendations for action plan





## Partners; TNO

TNO ([www.tno.nl](http://www.tno.nl)) , the Netherlands Organization for Applied Scientific Research, is one of Europe's leading independent research and development organizations. As a prominent player in the Dutch knowledge infrastructure, TNO has the mission to be the **crucial link between Research & Development and the commercial exploitation of knowledge in terms of new products and services.**





## ActNow Alliance

ActNow Alliance is an Alliance of Non-Profit Associations interested in collaborating in the use of ICTs and their applications for development in line with the Millennium goals.





## Avanti Communications

Avant Communications Ltd was formed with the objective of **developing operational applications of advanced communications** services. Avanti Communications is consistently demonstrated an ability to get ground breaking research and development innovations “off the page” and into commercial services



## European Space Agency

- ESA is well known. Does not need further introduction
- Act as a partner

