



Integrated **S**ite **S**ecurity for **G**rids

EU-FP6 Project 026745

François Fluckiger

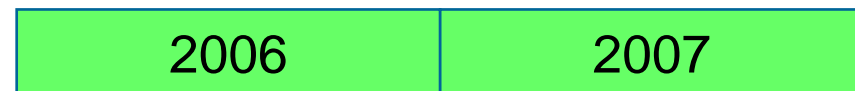
CERN

- **Overall aim**
 - *“Contribute to the consolidation of the European Grid infrastructure in the field of computer security”*
- **Focus**
 - **Site** Security to complement **Grid** security
- **Key concept**
 - **Integration** of all security components
- **Project Objective:**
 - a. **Create** expertise
 - b. **Disseminate** expertise

- **Four Partners**
 - CERN (coordinator)
 - CCLRC, UK
 - FZK, Germany
 - CS-SI, France

- **Budget: 1086 K€**

- **Start: 01/01/06**



- **Two years project**

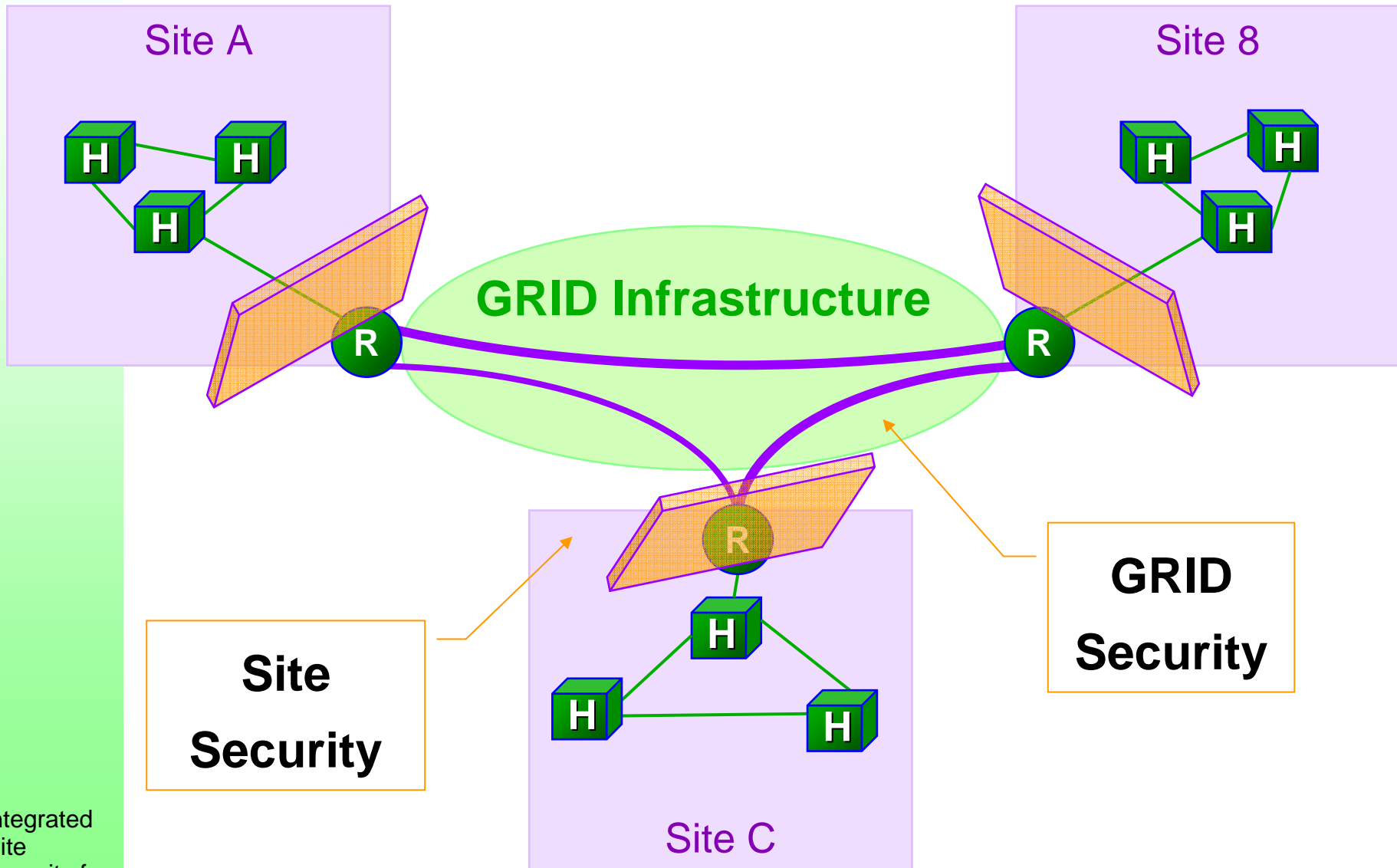


Site vs Grid Security

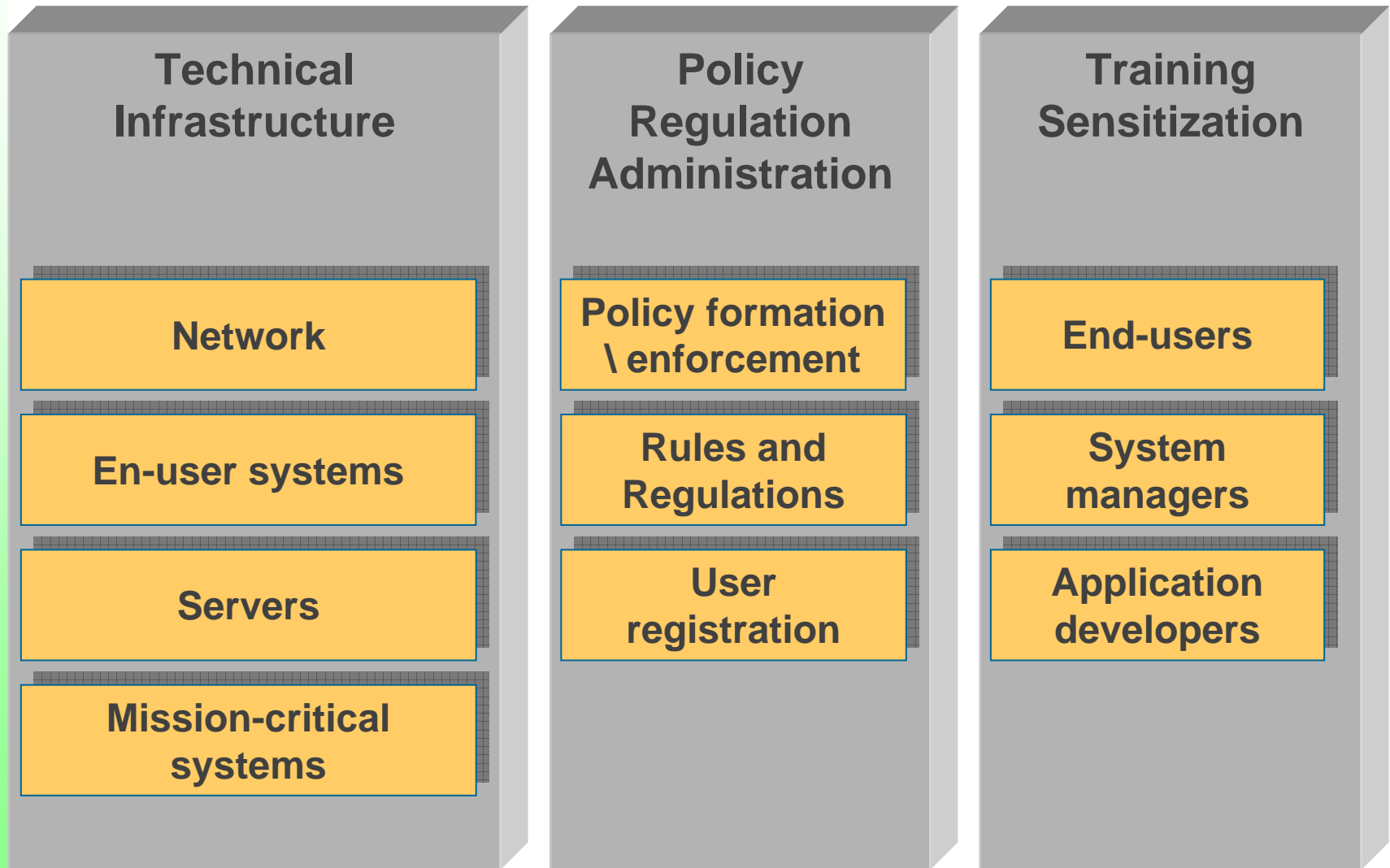
- **Grid Security**
 - Authentication / Authorization in VOs
 - Traveling Data integrity
 - Specific security incident

- **Site Security**
 - Technical Security
 - Policy, Regulation, Administration
 - Training and sensitization

Site vs Grid Security

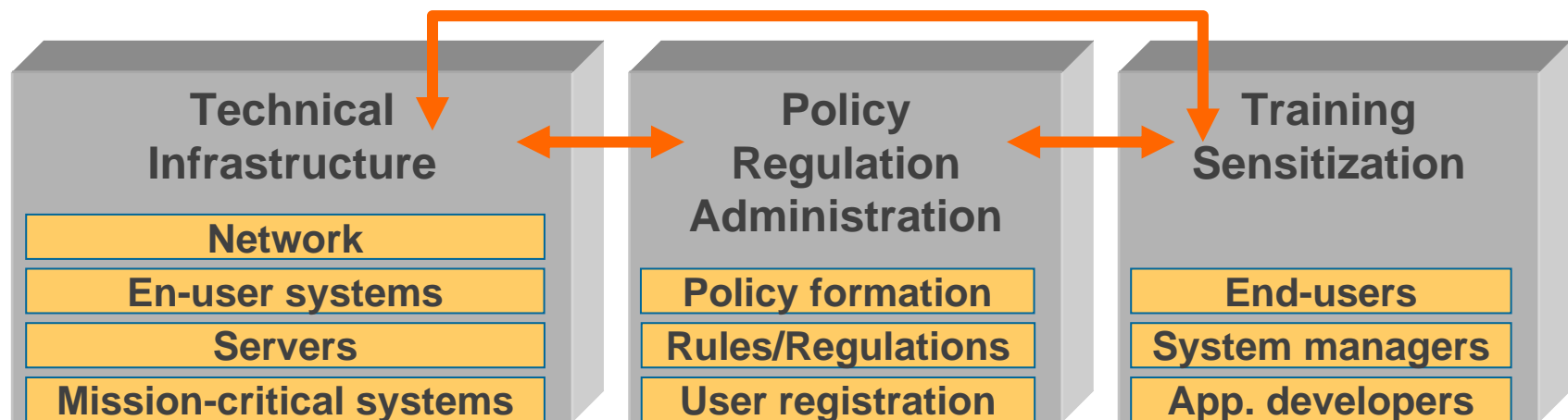


ISS: The Three Dimensions

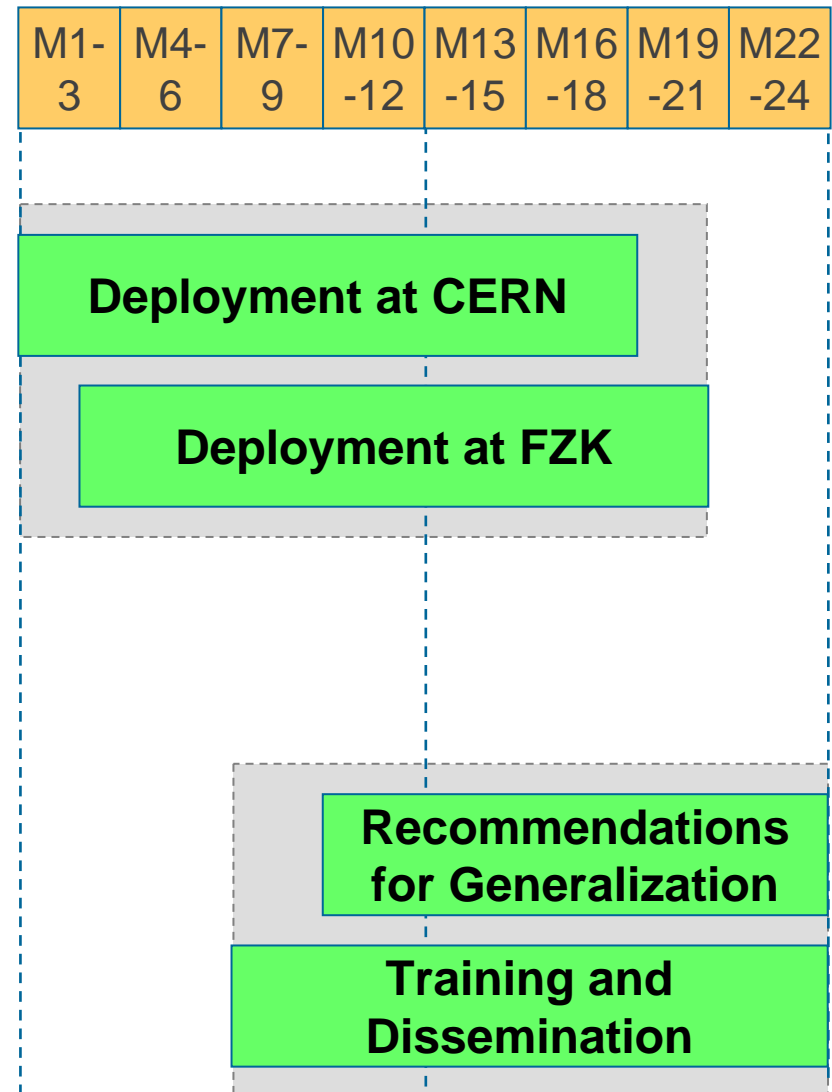


Integrated Approach

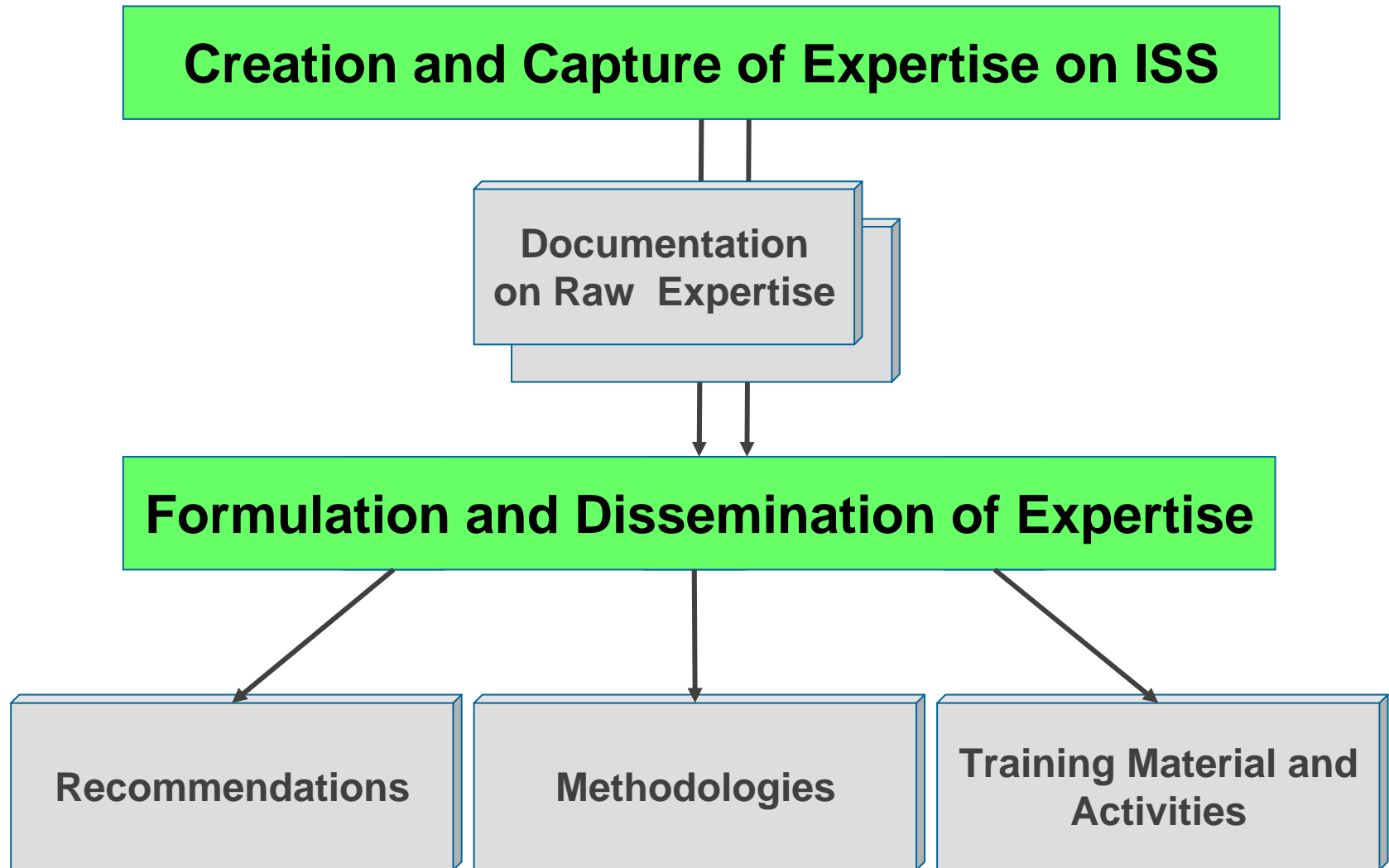
- *“Actions or decisions affecting one security component should be checked against other components likely to be affected, which in turn may have to be adapted”*
- *“Good synchronization necessary between changes affecting transversally multiple components”*
- **Examples of poor synchronization include:**
 - New anti-spam or virus detection measures translated with delay into end-user information / training material
 - New security policy published whilst technical components necessary to their enforcement are not yet fully operational

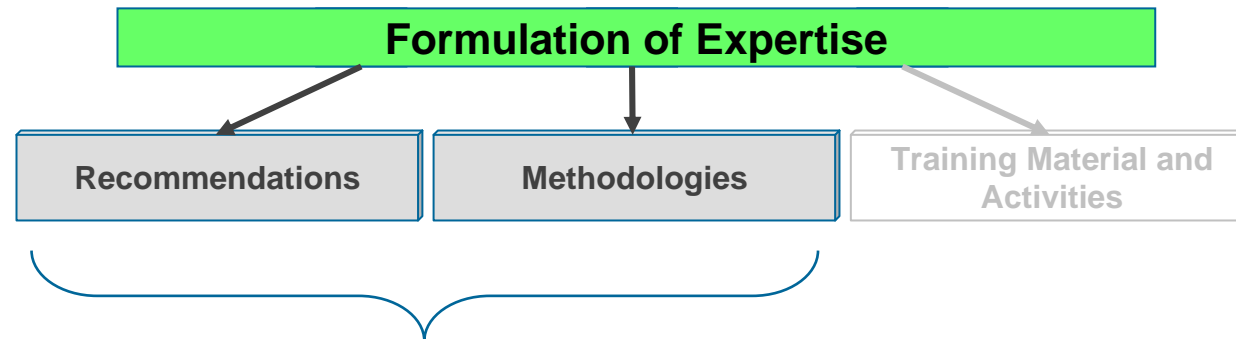


- **Expertise Creation**
 - ISS deployment at CERN
 - ISS adaptation and export at FZK
- **Expertise Dissemination**
 - Recommendations for ISS generalization
 - Training and dissemination actions

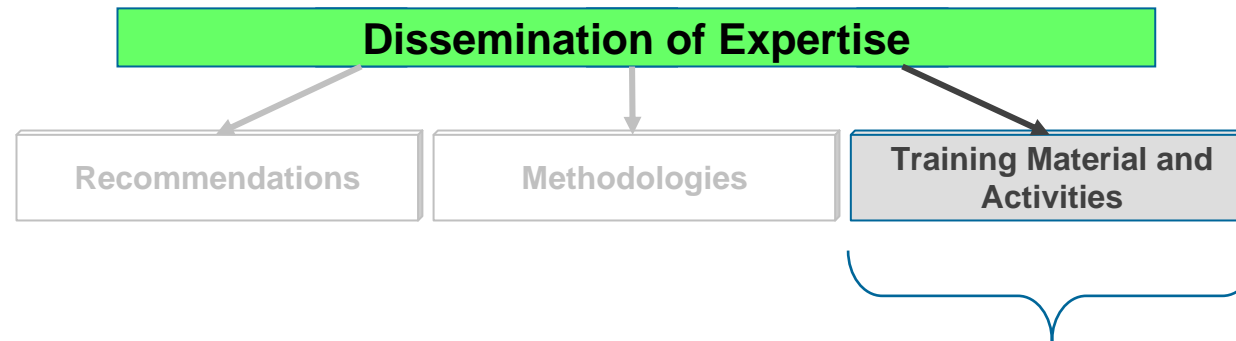


ISSeG Methodology (cont)



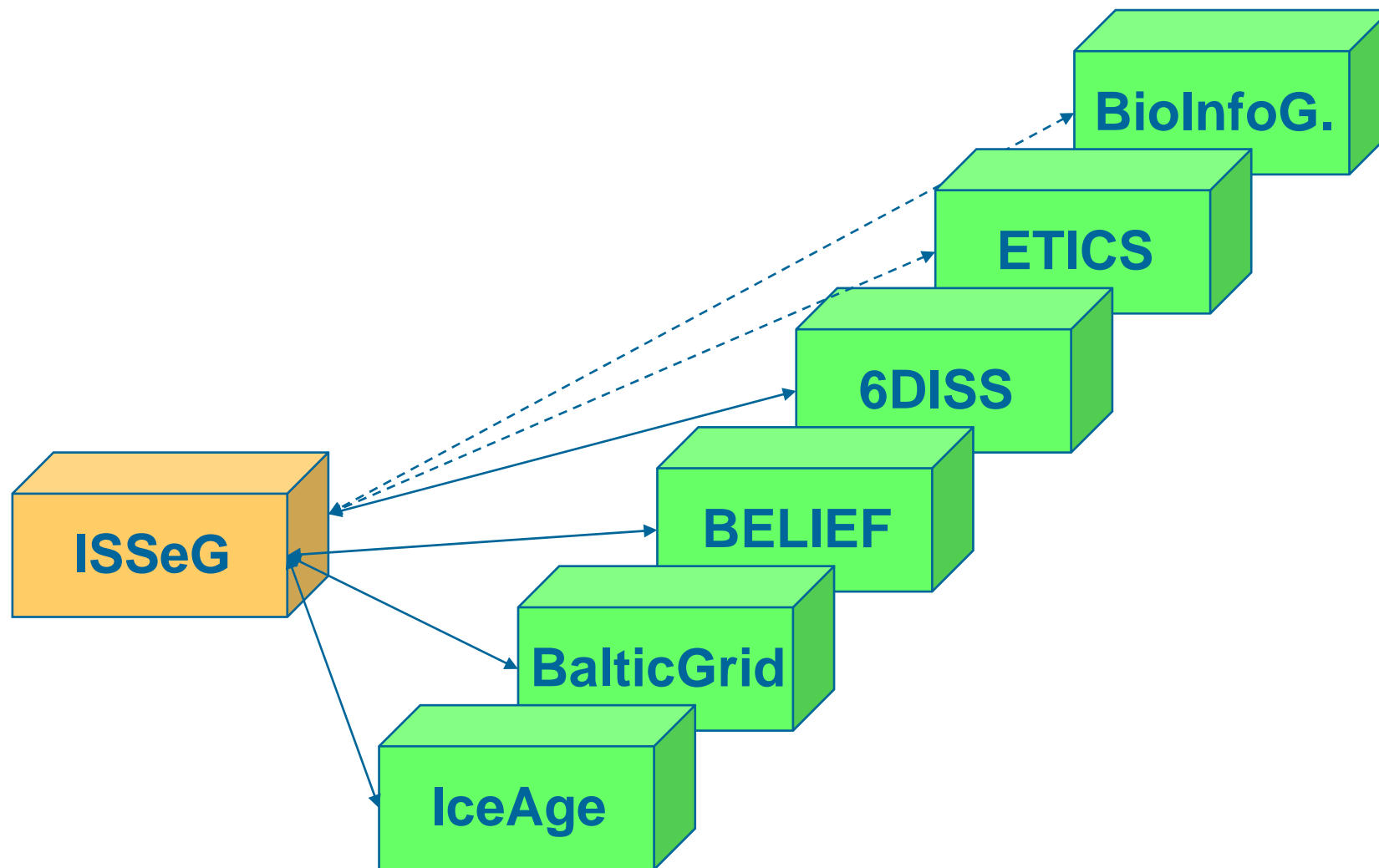


- **Recommendations for ISS Generalization**
Separate site-specific from generic aspects
 - Technical architecture
 - Policies
 - Organization
 - Training plans
- **Methodologies**
 - For security auditing of new sites

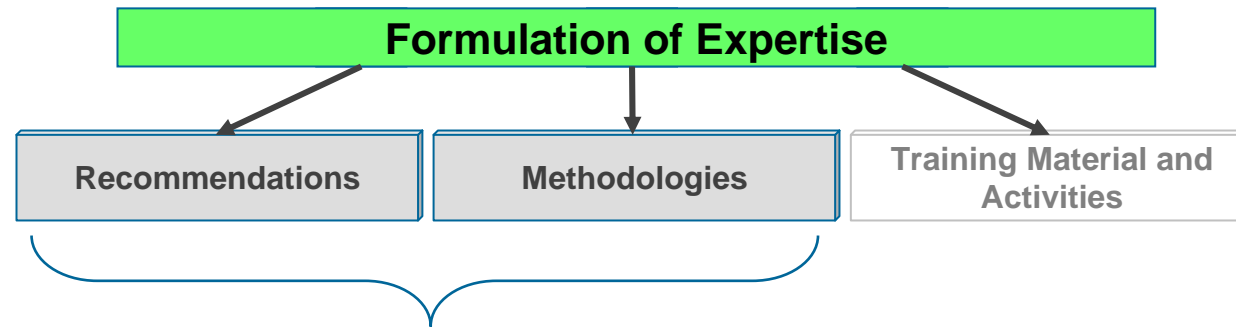


- **Training and dissemination Web Site**
- **Pilot topical school on site security**
- **Workshop on ISS with EGEE Site Security Officers**
- **Participation in (educational) events**
- **Specific dissemination actions to user communities**

Synergies with other EU projects



Synergies with other EU projects

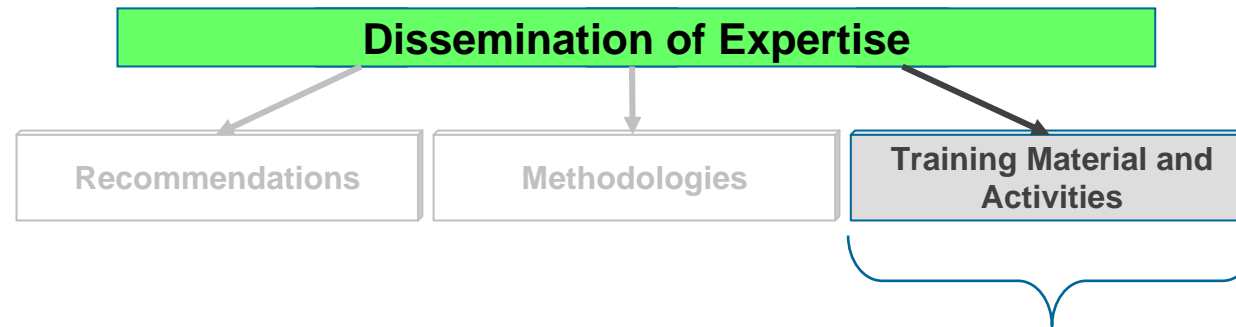



- **Liaison with Grid Security structures**
- **Involvement of User Communities**
 - Astrophysics
 - Bio-Informatics
 - Computational Chemistry
 - Fusion Physics
 - Health Sciences
 - High-Energy Physics



- **EGEE Security Policy Group**
- **via EGEE Application Activities**
- **via Other Grid-related projects**

Synergies with other EU projects



- Training and dissemination Web Site 
- Pilot topical school on site security 
- Workshop on ISS with Site Security Officers 
- Participation in educational events 
- Specific actions to user communities 
- Web site Cross-referencing
- Partnership with other project event
- Co-located with other project event
- Provision of lecturers, content
- via Grid-related projects

Towards Joint Actions

Agreement on the principle of joint actions

IceAge	■ Cross referencing
	■ Share of education material
	■ Exploitation of IceAge dissemination channels for educational material

Towards Joint Actions

Agreement on the principle of joint actions

BalticGrid

- Cross referencing of education material
- (ISSeG) presenting at BalticGrid workshops and seminars
- (ISSeG) lecturing at BalticGrid summer schools / tutorials

Agreement on the principle of joint actions

BELIEF

- **Include the ISSeG training plan in some of BELIEF events**

Two workshops, two international conferences

- **Use the BELIEF portal to identify new partners interested in deploying the ISS**

User community database for trying and forge alliances with industry & research in the fields of eInfrastructures

Agreement on the principle of joint actions

6DISS

- **Identify technical areas of mutual interest**

which overlap the wide-area networking domain of 6DISS and the site security domain of ISSeG

- **Organize as appropriate actions of mutual benefits**

such as cross-reference of educational material and cross-participation to dissemination events

- ISSeG is a two-year project
- Too short to achieve **wide-scale ISS generalization**
- Sufficient to **create the conditions** for it
 - methods
 - recommendations
 - trainingall validated by the two deployments
- ISS generalization ...
... may be the subject of a **second phase**