



Introduction to IRUVX-PP

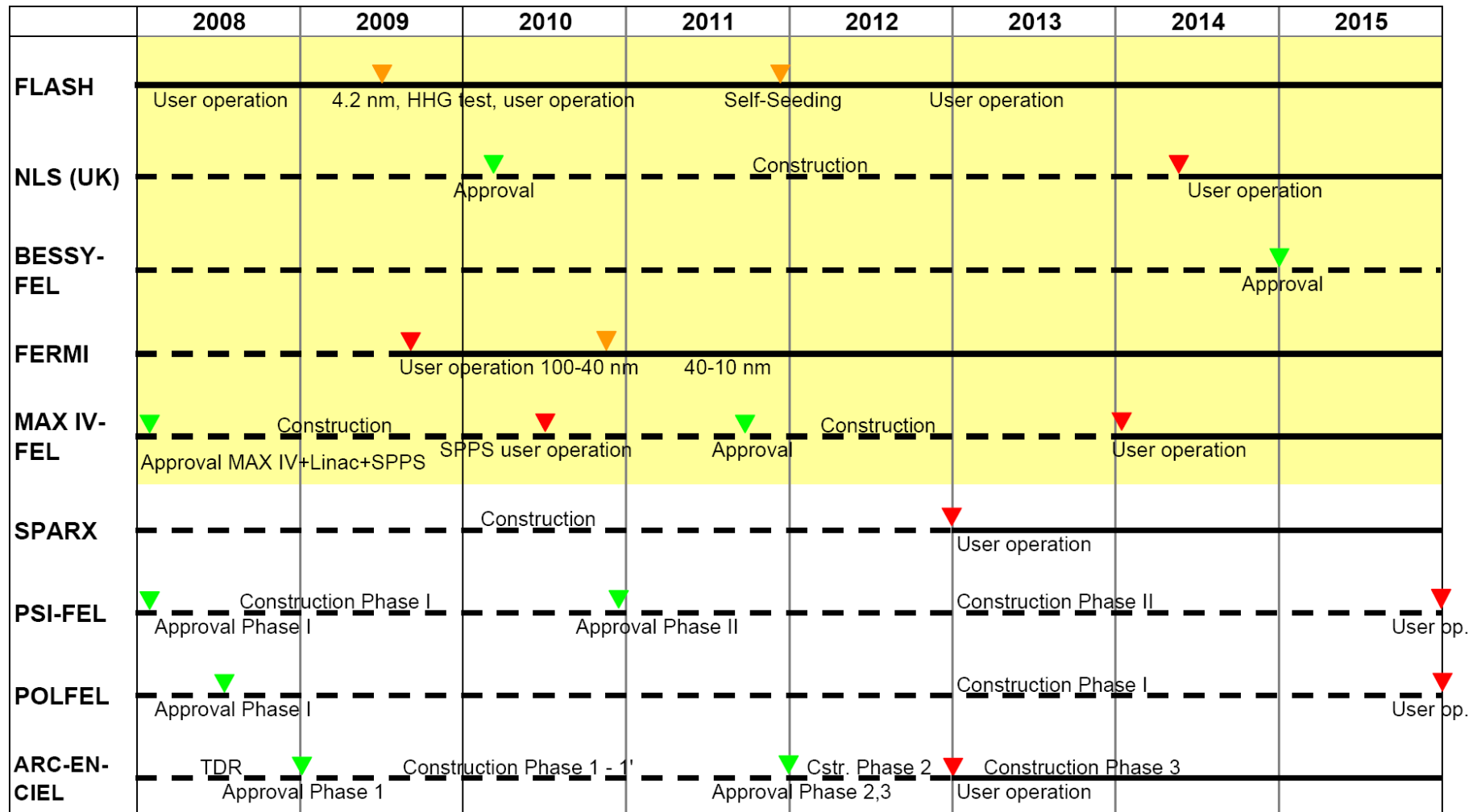
Preparatory Phase of IRUVX-FEL



FEL projects in Europe

		2008	2009	2010	2011	2012	2013	2014	2015
FLASH NLS (UK) BESSY-FEL FERMI MAX IV-FEL		Beneficiaries						Short name	
	U	Stiftung Deutsches Elektronen-Synchrotron						DESY	
		Berliner Elektronenspeicherring-Gesellschaft für Synchrotronstrahlung mbH						BESSY	on
		Sincrotrone Trieste S.C.p.A.						ELETTRA	val
		Lund-University						MAXLAB	
	▼ Ap	Science and Technology Facilities Council, Daresbury Laboratory						STFC	
SPARX PSI-FEL POLFEL ARC-EN-CIEL		Potential Beneficiaries						Short name	
	▼ A	Istituto Nazionale di Fisica Nucleare						INFN	--- User op. ▼
		Paul-Scherrer Institut						PSI	
	A	Andrzej Soltan Institute for Nuclear Studies						IPJ	--- User op. ▼
		Société Civile Synchrotron SOLEIL						SOLEIL	

FEL projects in Europe



FEL projects in Europe

	2008	2009	2010	2011	2012	2013	2014	2015
FLASH	User operation	4.2 nm, HHG test, user operation		Self-Seeding	User operation			
NLS (UK)			Approval	Construction			User operation	

Individual projects are too small for a European RI



Make sure they are complementary and join them to a unique distributed European facility

	2008	2009	2010	2011	2012	2013	2014	2015
POLFEL	Approval Phase I				Construction Phase I			User op.
ARC-EN-CIEL	TDR Approval Phase 1	Construction Phase 1 - 1'		Approval Phase 2,3	Cstr. Phase 2	Construction Phase 3	User operation	

IRUVX-FEL - History

- | | |
|------------|---|
| Apr 2006 | IRUVX-FEL proposal to ESFRI as:
A European Consortium of FELs
from IR up to UV/soft X-ray |
| Sep 2006 | accepted as one of the 35
ESFRI Roadmap 2006 Projects |
| Consortium | the five new infrared to soft X-ray accelerator
driven FELs in Europe:
BESSY FEL, FERMI, FLASH, MAX IV FEL,
4GLS → NLS |



Memorandum of Understanding signed Dec 2006

1. Activate joint activities to **develop complementarities** of FEL sources, beamlines and experimental stations
2. Set up joint **Scientific Advisory Body**
3. Set-up a longer-term consortium and define a **legal framework for cooperation**
4. **Open to other participants** contributing to the common scope
5. **Join forces to realise the overall project** in a phased way: e.g. exchange and training of personnel, exchange of know-how

IRUVX-FEL - Why???

**Just being on the ESFRI Roadmap is not sufficient,
the only direct consequence might be funding for IRUVX-PP!
(EC will not finance RIs but wants to catalyse)**

The real question is:

**How would facilities and users profit
from an IRUVX-FEL Consortium?**

IRUVX-FEL - guidelines

Guiding questions

- **How can a IRUVX-FEL Consortium support the construction and operation of individual FEL facilities?**
(financing, exchange of know-how and personnel, training, joint R&D programmes, interaction with industry, more efficient, etc.)
- **How can a Consortium better provide optimum conditions for a broad user community, i.e. optimise the scientific output of the RIs?**
(sufficient beamtime, high-quality instrumentation, complementary features)

Complementarity

- How much is needed?
- Do we need to control this actively, or is it a self-organising process?

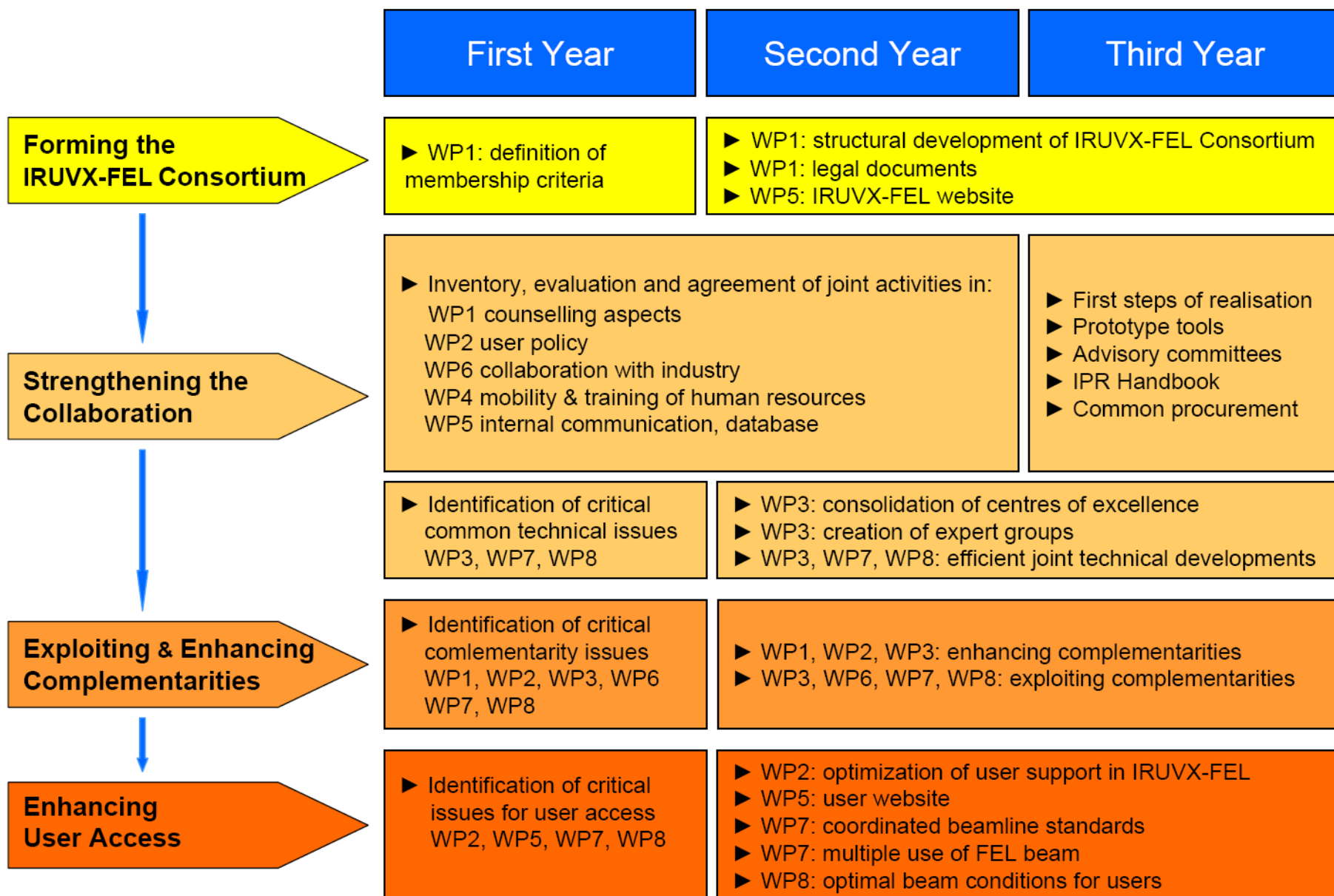
Structure of the Consortium

Work packages

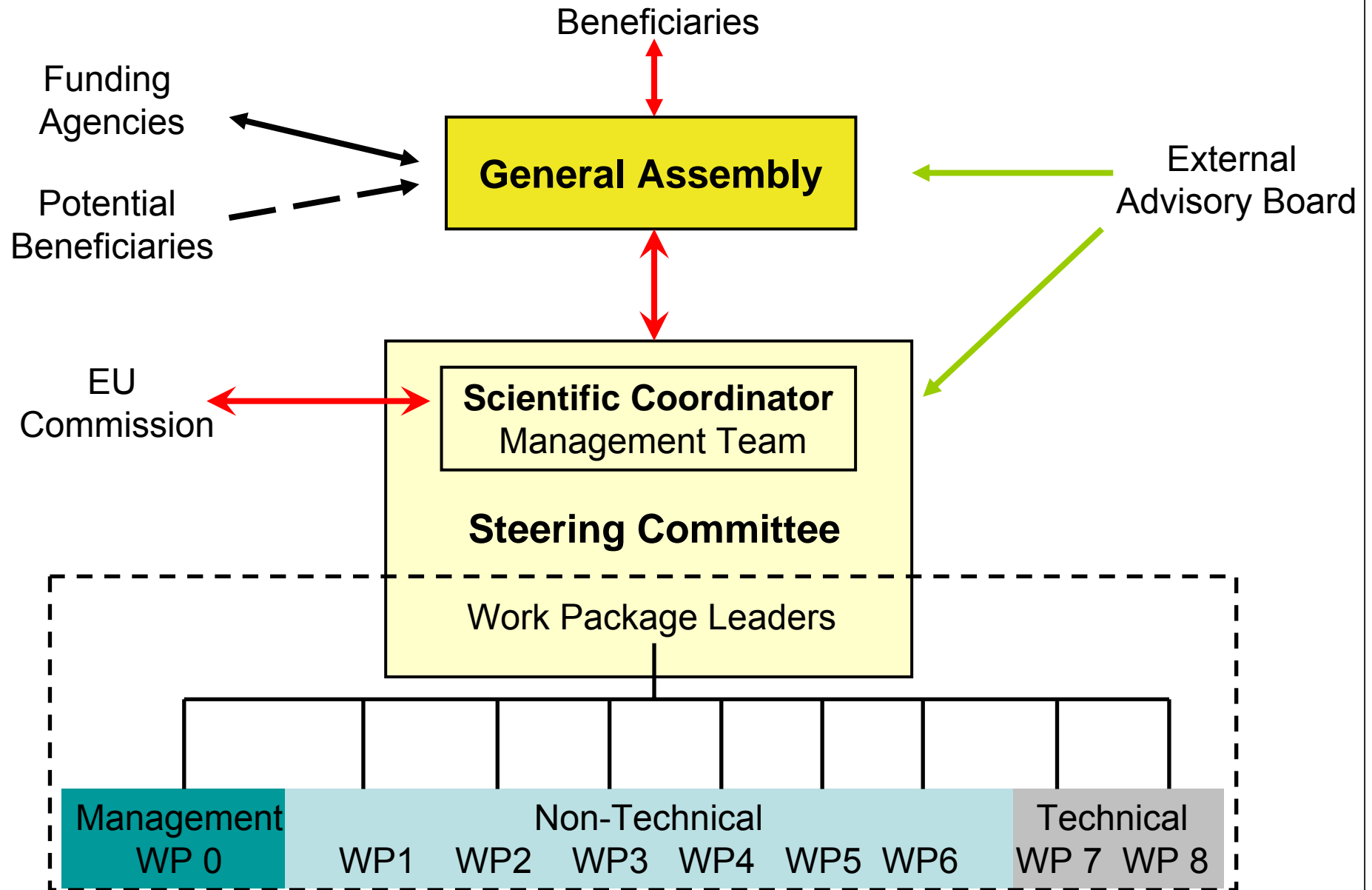
WP1	Construction of the IRUVX-FEL Consortium	ELETTRA: Albin Wrulich DESY: Josef Feldhaus
WP2	User Policies	BESSY: Olaf Schwarzkopf PSI: Heinz Weyer
WP3	Coordination and Consolidation of Joint Technical Developments	STFC: Elaine Seddon DESY: Christopher Gerth
WP4	Development of Human Resources	MAX-LAB: Svante Svensson ELETTRA: Andrea Crivelli
WP5	Communication and Dissemination	DESY: Matthias Kreuzeder BESSY: Olaf Schwarzkopf
WP6	Collaborations with Industry	STFC: Liz Towns-Andrews MAX-LAB: Åke Kvik
WP7	Photon Beamlines and Experiments	DESY: Kai Tiedtke
WP8	FEL Source	ELETTRA: Laura Badano, Tony Rohlev

65 Deliverables & 35 Milestones

Objectives



Management structure of IRUVX-PP



Kick-off participation

79 registered participants

I	WP7	Photon Beamlines and Experiments	19
I	WP8	FEL Source	29
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III	WP6	Collaborations with Industry	16

Have a successful meeting!