Swiss Institute of Particle Physics

FORCE (1)

FORCE funds granted in 2009 (first batch)

Project	Experiment	amount	author
Particle Physics at CERN	CMS	270 k	Amsler
Construction of the LHCb experiment	LHCb	250 k	Straumann
A long baseline numu-nutau appearance experiment in the CNGS beam from CERN to Gran Sasso	OPERA	350 k	Vuilleumier
GRID Computing Infrastructure for LHC experiments	GRID computing	1'500 k	Grab
High-precision CP violation physics at LHCb	LHCb	350 k	Schneider
M&O for the LHC experiments at CERN	M&O	800 k	Straumann
The CMS experiment at LHC	CMS	440 k	Pauss
Swiss groups contributions to the T2K experiment at CERN	T2K/NA61	150 k	Blondel
CERN Cloud experiment	CLOUD	132 k	Baltensperger
Remaining funds for 2009 (second batch)		558 k	

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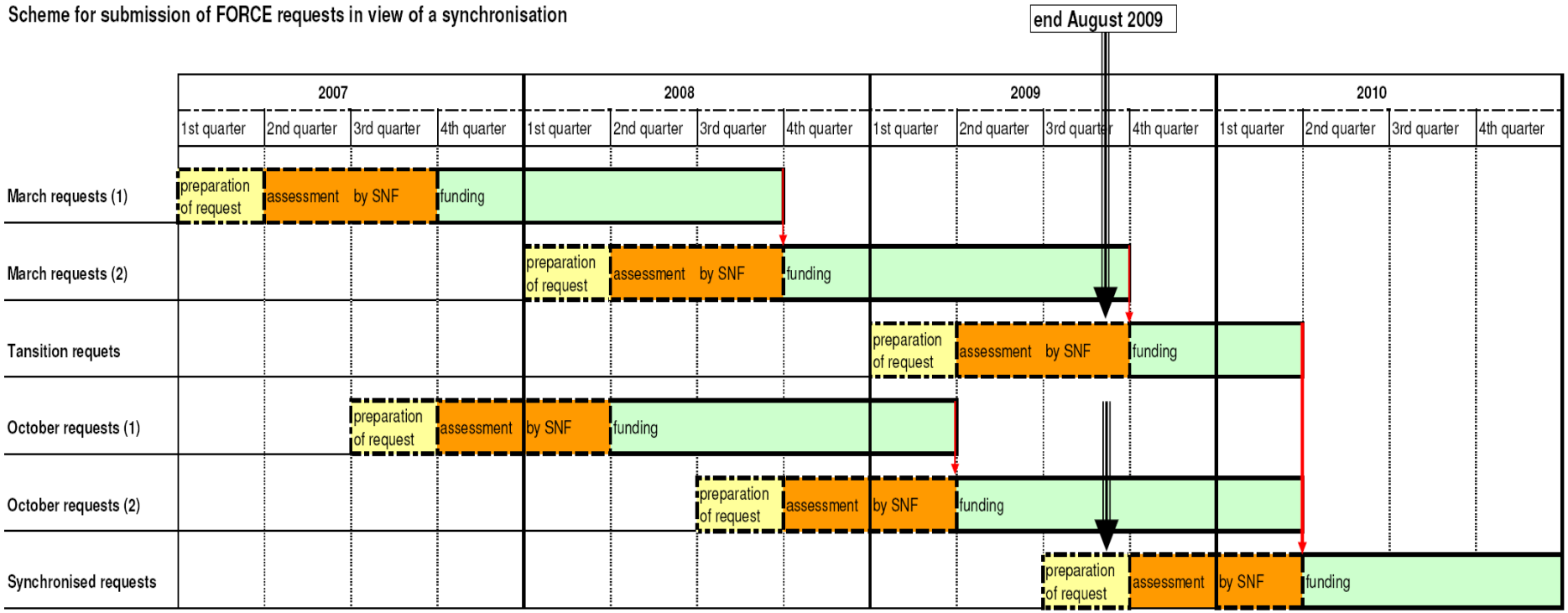
FORCE (2)

Synchronisation of FORCE requests:

we are close to the end of the transition period!



⟶ refer in your request to the presently running normal SNF grant.

⟶ request for technical manpower now possible

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FOLIS (1)
Fonds for Large Infrastructures

Background:

- Increasing number of new particle physics projects outside CERN and ESO (astroparticle, neutrino ...)
- Many of these projects
  - concern large research infrastructures
  - are part of roadmaps (e.g. ESFRI, national or other European or international roadmaps)
- SNF – understandably – does not want to fund and support Swiss participation in the construction of such research infrastructure (e.g. recent SINERGIA funded only academ. positions)
- Investment funding not covered by FORCE and FINES

➔ weak position of Swiss scientific community and its participation in such projects

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FOLIS (2)
Fonds for Large Infrastructures

Idea: create a new funding line

- "for the Swiss participation in the construction of international large research facilities and infrastructures": FOLIS
- structure, rules and size similar to FORCE
- prepare for the bill to Parliament for the next funding period, starting 2012.
- written a letter to State Secretary Dell'Ambrogio mentioning the idea of creating a new funding instrument.
- fact sheets have been collected from colleagues involved in such projects, in order to have something concrete as examples.
- chair will meet with State Secretary on 11 September to present the idea in more detail and on the basis of these fact sheets
- in case of a positive outcome, the bill will have to be prepared during 2010.

➔ in the best of all worlds this money would start to flow in 2012.

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FOLIS (3)
Fonds for Large Infrastructures

Examples of possible FOLIS projects (for illustration)

Project	CH-Inst.	Roadmap	CH participation in funding	Contribution items	Cost range 2012-2016 (Invest & Ops)
CTA (gamma ray astrophysics)	UGE, UZH, EPFL, ETHZ	ESFRI-Roadmap; ASPERA priority.	R&D: 10%; construction: 5%	Data centre ISDC camera electronics mirror control mechatronics	15 MCHF
DARWIN (dark matter)	UZH, ETHZ	ASPERA priority; Recomm in CH PP Roadmap	20%	Project management cryo system and TPC vessel hybrid detectors large area LEMs	10.1 MCHF
GERDA (double beta decay)	UZH	ASPERA priority	5%	Calibration system electrical system test facility broad-energy Ge detectors	1.6 CHF
Large Underground Observatory	UZH, UBE, ETHZ	ASPERA priority; Recomm in CH PP Roadmap; JAP Roadmap; PL Roadmap; *Next ESFRI Roadmap?*	R&D: ? construction: open	LAr TPC technology	????
PEBS (balloon)	EPFL, ETHZ		33%	Silicon PMT for fibre tracker readout electronics Calorimeter Superconductive magnet	2.5 MCHF

29.3 MCHF
~ 5 MCHF/y