COST action CA20111 EuroProofNet

5th Management Committee meeting

19 September 2025

Agenda

- Gilles Dowek's contributions to EuroProofNet (F. B.)
- Summary of the 4th grant period (F. B.)
- Summary of gender balance activities (Anja Petković Komel)
- Summary of grant awardings (Ambrus Kaposi)
- Summary of WG1 activities and results (Jesper Cockx)
- Summary of WG2 activities and results (Mathias Fleury)
- Summary of WG3 activities and results (Alicia Villanueva)
- Summary of WG4 activities and results (Claudio Sacerdoti)
- Summary of WG5 activities and results (David Cerna)
- Summary of WG6 activities and results
  (Roussanka Loukanova)

COST action CA20111 EuroProofNet

Summary of Nov 24 - Oct 25

Frédéric Blanqui

Core group composition (19 September 2025)

chair: Frédéric Blanqui (France)
vice-chair: Sandra Alves (Portugal)
communication: Natasa Stojkovik (North Macedonia), Dmitriy Traytel (Denmark)
grants: Ambrus Kaposi (Hungary), Simona Prokić (Serbia)
training: Luigia Petre (Finland), Marija Mihova (North Macedonia)
gender-balance: Anja Petković Komel (Slovenia)
WG1: Jesper Cockx (Netherlands), Catherine Dubois (France)
WG2: Mathias Fleury (Germany), Sophie Tourret (France)
WG3: Alicia Villanueva (Spain), Adrian Riesco (Spain)
WG4: Claudio Sacerdoti (Italy)
WG5: David Cerna (Czech Republic), Adrian de Lon (Germany)
WG6: Roussanka Loukanova (Bulgaria), Benedikt Ahrens (UK)

young 48%   women 48%   ITC 33%

Countries represented in the MC

no new countries in 2025

evolution:
- ▶ submission: 24 (50% ITC)
- ▶ Oct 2022: 34 (50% ITC)
- ▶ Oct 2023: 35 (51% ITC)
- ▶ Oct 2024: 36 (53% ITC)

missing ITC: Cyprus, Latvia, Malta, Moldova, Montenegro

Working group members (statistics on 30 August 2025)

members	**608**		(+16%)
young	359	**59%**	(+13%)
women	134	**22%**	(+18%)
prefer not to say	23	4%	
ITC	128	**20%**	(+17%)
non-ITC	449	73%	(+17%)
non-COST*	31	11%	(+0%)
WG1	161	26%	(+8%)
WG2	227	37%	(+10%)
WG3	275	45%	(+12%)
WG4	202	33%	(+8%)
WG5	145	24%	(+16%)
WG6	264	43%	(+20%)

* USA, Brazil, Argentina, Mexico, Canada, Japan, Taiwan, Australia

Member countries

France (FR)	101	17%	+14
United Kingdom (UK)	89	14%	+16
Germany (DE)	54	9%	+9
Italy (IT)	44	7%	+9
Sweden (SE)	29	5%	+4
Netherlands (NL)	24	4%	+5
Portugal (PT)	22	4%	+3
Austria (AT)	19	3%	+2
Spain (ES)	19	3%	+0
United States (US)	17	3%	+1
Denmark (DK)	16	3%	+1
Serbia (RS)	16	3%	+2
Belgium (BE)	14	2%	+1
Romania (RO)	13	2%	+0
Switzerland (CH)	12	2%	+0
Hungary (HU)	10	2%	+1
Czech Republic (CZ)	9	1%	+2
Poland (PL)	9	1%	+2
Israel (IL)	7	1%	+0
Norway (NO)	8	1%	+1
Turkey (TR)	8	1%	+1
...			

Communication (statistics on 30 August 2025)

publications	150	+41%
STSM/ITCG reports	89	+48%
PDF talk slides	258	+20%
talk/lecture videos	18	
Zulip users	346	+17%
Twitter followers	153	+7%
Facebook followers	47	+7%
web pages	173	+27%
photos	197	+17%

Expenses on 30 August 2025

date	event	place	persons	planned	final	diff	
	STSM		26	35136	34595	-541	
	ITCG		3	4000	3011	-989	
Feb	WG1	Nogent	17/17	10200	11135	+935	
May	WG6	Genoa	16/54	12960	12319	-641	
May	WG5	Edinburgh	14/114	11440	11040	-400	
Jun	Geo ATP	Krakow	7/9	5180	5217	+37	
Jun	WRQT	Porto	7/32	7500	5196	-2304	
Jun	WEPN	Glasgow	5/28	4256	3514	-742	
Jun	SONALF	Bonn	12/24	10320	9466	-854	
Jul	school	Kutaisi	5/28	6510	4277	-2233	
Jul	SPLV	Edinburgh	9/125	6300	5911	-389	
Sep	Symposium	Orsay	55/170	62720	62933	+213	estim.
Sep	WG124	Val d'Ajol	14/14	0	5414	+5414	estim.
		TOTAL		**176522**	**174028**	**-2494**	
		+FSAC15%		203000	200132	-2868	

Handling of goals for Nov 24 - Oct 25

1. Support young researchers from inclusive-target countries:
3 ITCGs, 1 school in Georgia (23 local participants), 9 funded participants at SPLV

2. Advertise the work of women in EuroProofNet and inform EuroProofNet members on gender biaises:
Women in EuroProofNet workshop at TYPES ($>$28 participants)

3. Advertise the achievements of the action:
Symposium at Orsay ($>$175 registered participants)

4. Train young researchers on advanced topics in logical frameworks, proof system interoperability, controlled natural languages, program semantics formalization and verification
4 schools (Bonn 24, Kutaisi 28, Edinburgh 125, Orsay 85)

Handling of goals for Nov 24 - Oct 25

5. Translate new proof libraries from some systems to others and make them easily available and usable:
WG1 meeting in Nogent (17 participants), coq-hol-light, lean2dk, https://lambdapi.saclay.inria.fr

6. Share knowledge and discuss mathematical and computational linguistics techniques and tools in proof assistants:
International Conference on Mathematical and Computational Linguistics for Proofs (MCLP, 47 registered participants)

7. Share knowledge and discuss the existing approaches for defining and reasoning about type theories:
WG6 meeting in Genoa (>54 participants)

8. Share knowledge and discuss the results and perspectives on the use of large language models in proof systems:
WG5 meeting in Edinburgh (114 participants)

Handling of goals for Nov 24 - Oct 25

9. Develop a shared file format and database for geometric problems:
WG2 meeting in Krakow (9 participants)

10. Share knowledge on the state-of-the-art proof-logging approaches in reasoning tools:
WG2 meeting and WHOOPS in Orsay (65 registered participants)

11. Explore the use of quantitative types to infer the complexity of a program:
WRQT workshop in Porto (32 participants)

12. Set up a shared collection of verification challenges with recipes for verifying them:
WG3 meeting in Orsay (48 participants)

Deliverables in 2025

▶ White paper on including restricted natural language proof formats to existing proof libraries:
Ongoing work. Should be finished in the coming weeks.

▶ Prototype implementation of the mathematical framework, with basic user interface, user documentation and gallery of examples of type theories:
  ▶ Andromeda (`https://www.andromeda-prover.org/`) proof checker for user-definable dependently-typed theories
  ▶ Narya (`https://github.com/gwaithimirdain/narya`) proof assistant for higher-dimensional type theory