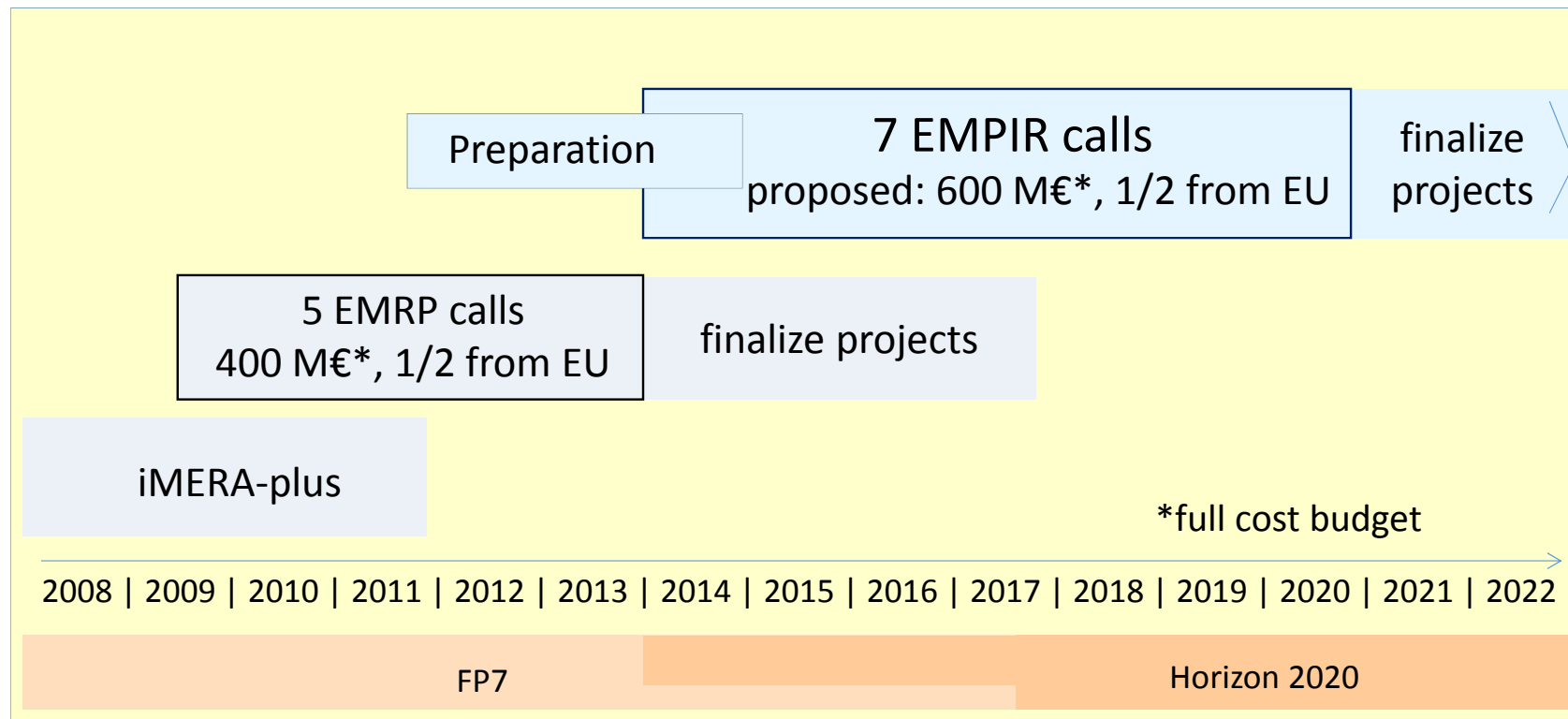


EMRP and EMPIR

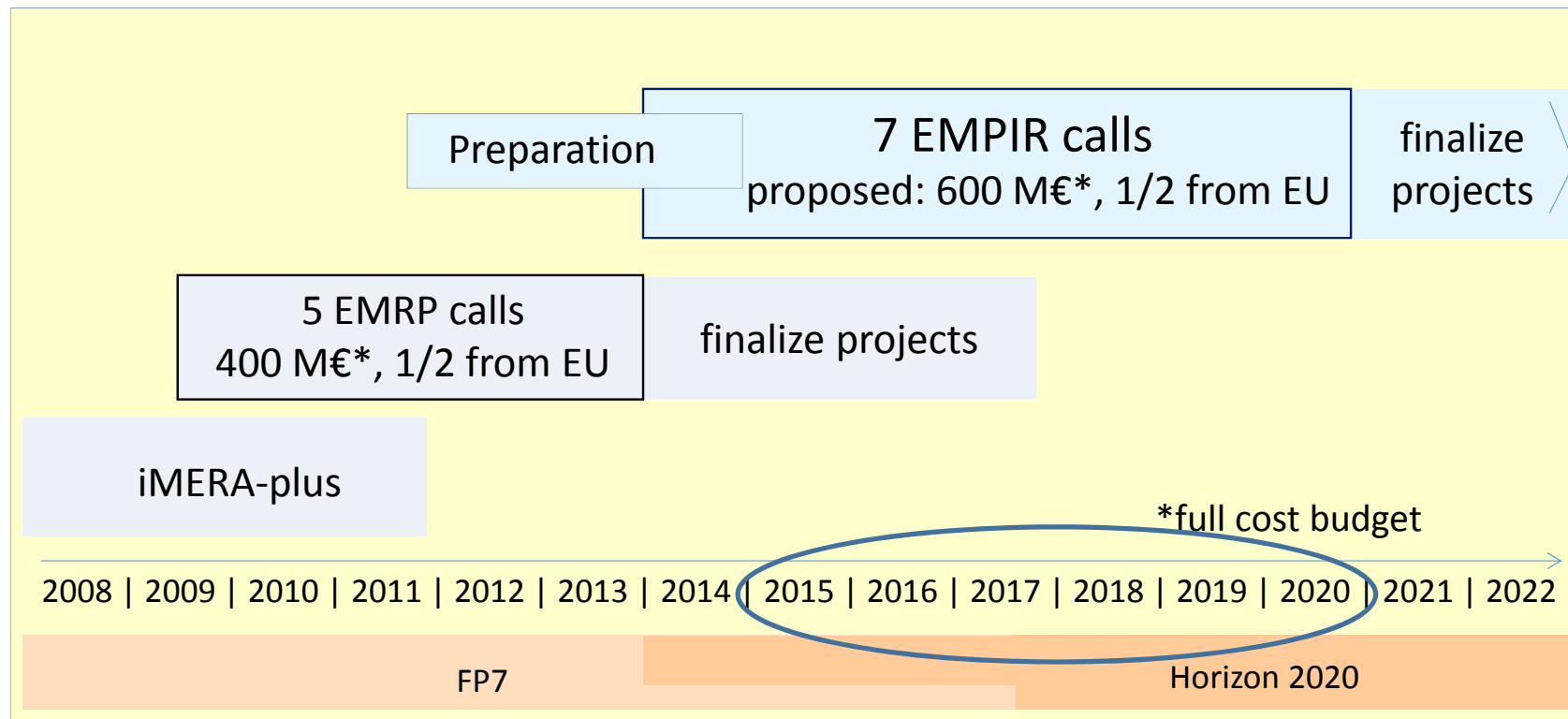
Oslo, 24 May 2016

- (1) Running program business
- (2) EC evaluations of programs

Research Programmes



Research Programmes



Status of 2015 calls

- Health: 8 out of 9 grant agreements signed by 31 May
- SI: 10 out of 10
- Normative: 3 out of 4
- Research Potential: 4 out of 4
- Support for impact: 6 out of 6

- Projects start during summer 2016

Status of 2016 calls

- Energy: 49 Potential Research Topics received
- Environment: 43 PRTs received
- Normative: 30 PRTs received
- Research Potential: 10 PRTs received

- Altogether 132 PRTs, EMPIR committee selects this week approximately 60 of them as SRTs
- Quite many continuation proposals included in Energy and Environment

- Call open 16 June – 30 September 2016
- Support for impact: Call open 26 July – 26 September 2016

Future calls 2017-2020 (indicative)

Year	Call	EU contribution M€	Target % for non NMI/DIs
2017	2017 -1 Fundamental JRPs	15.60	40 %
	2017-2 Industry JRPs	24.30	30 %
	2017-3 Normative JRPs	4.80	30 %
	2017-4 Research Potential JRPs	2.30	10 %
	2017-5 SIPs	0.50	0 %
2018	2018-1 SI JRPs	21.00	20 %
	2018-2 Health JRPs	21.00	35 %
	2018-3 Normative JRPs	5.00	30 %
	2018-4 SIPs	0.50	0 %
2019	2019-1 ENV JRPs	20.00	35 %
	2019-2 ENG JRPs	20.00	35 %
	2019-3 Normative JRPs	4.80	30 %
	2019-4 undefined JRPs	2.20	0 %
	2019-5 SIPs	0.50	0 %
2020	2020-1 Industry JRPs	14.80	30 %
	2020-2 Fundamental JRPs	15.80	39 %
	2020-3 Normative JRPs	5.00	30 %
	2020-4 undefined JRPs	8.90	0 %
	2020-5 SIPs	0.50	0 %
Total		300.00	

http://msu.euramet.org/downloads/documents/EMPIR_Call_plan.pdf

Miscellaneous observations

EMRP

- EMRP is soon ending: last projects will be completed in 2017
- Some countries have not paid their EMRP fees of 2016
- Serious delays in final reporting of some projects

Miscellaneous observations

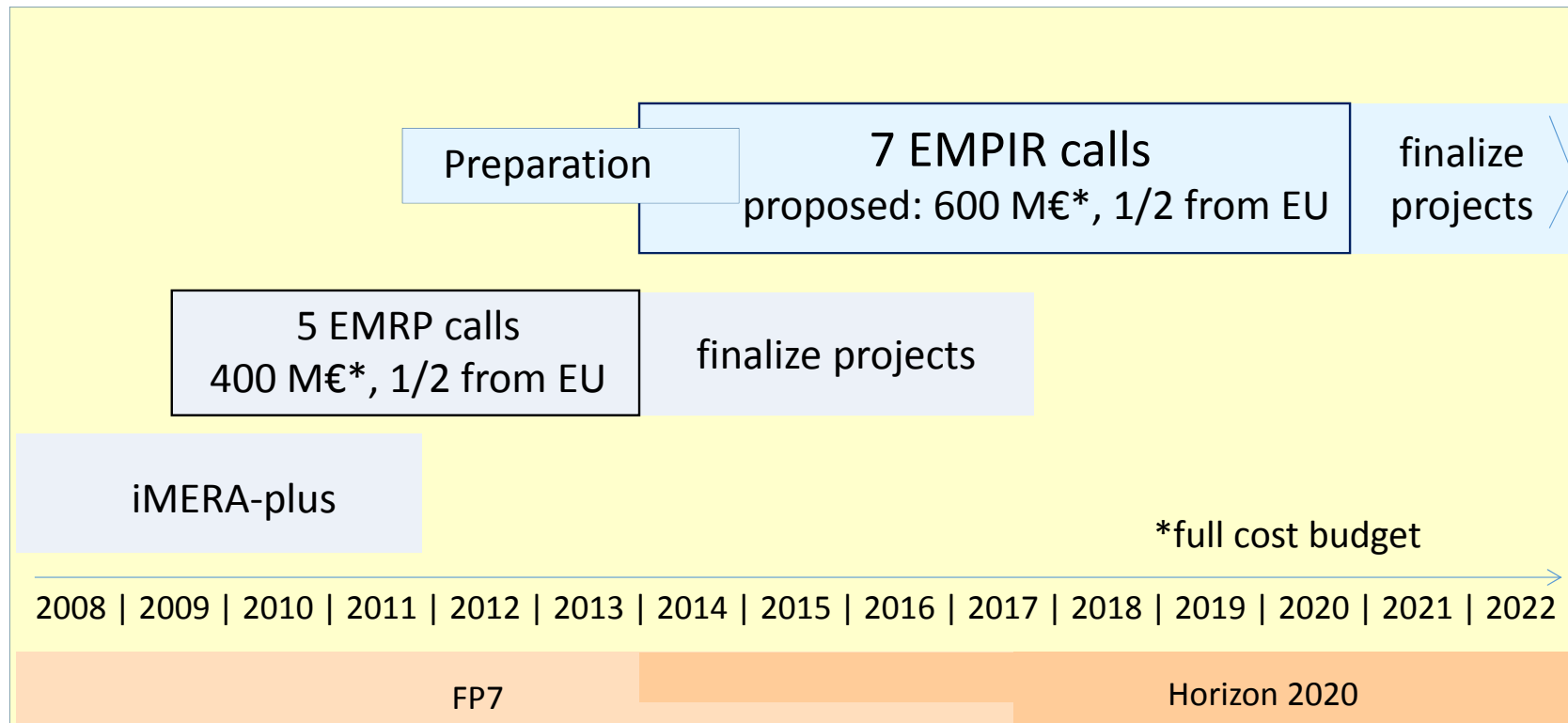
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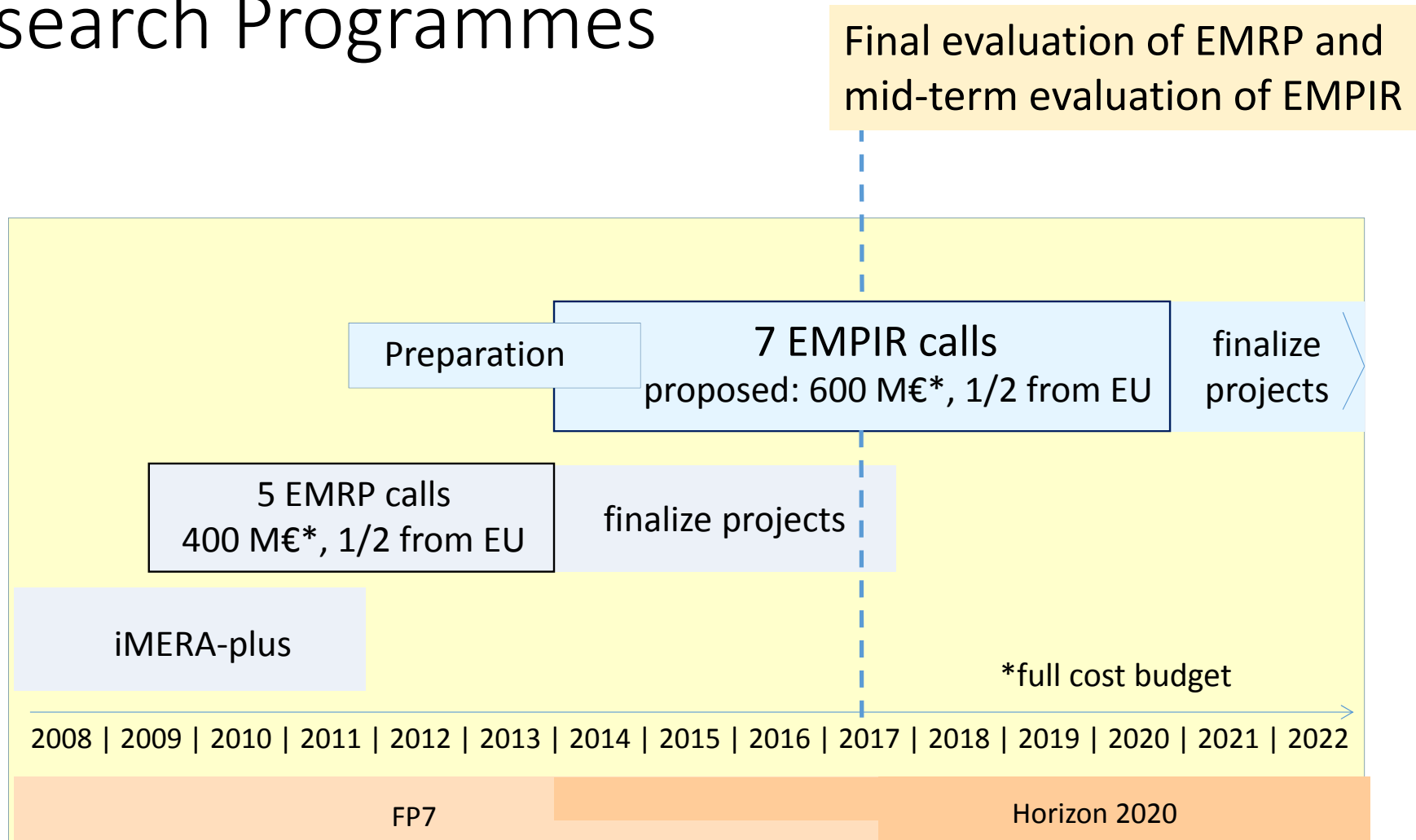
EMPIR

- ~85 % of funding used for conventional TPs, i.e., Industry, Health, SI, ...
- Research Potential: All eligible proposals funded
- Support for impact: All but two eligible proposals funded
- Normative: Only one proposal from STAIR-EMPIR process funded

Research Programmes



Research Programmes



Final evaluation of EMRP and mid-term evaluation of EMPIR - Actions

- Web-based questionnaires

 - Coordination study, NMI directors, summer 2016

 - EC evaluations, ministries and stakeholders, summer 2016

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 - Success stories of research projects => All => Paula, Anne

Traceable measurements for monitoring critical pollutants under WFD-2000/60/EC

Problem

The Water Framework Directive (WFD) specifies a list of 33 priority water pollutants for which maximum allowable concentrations have been defined. One such toxic pollutant is tributyltin (TBT), a compound used in protective coatings for boats.

Solution

The EMRP project WFD developed two reference methods, based on different mass spectrometry techniques, for measuring TBT levels in real water samples. Both methods are traceable to the SI and meet the requirements of the WFD regarding the limit of quantification (which describes the smallest concentration that can be reliably measured) and measurement uncertainty.

Coordinator: Rosemarie Philip, BAM



Impact

The improved method for TBT analysis has already been adopted by an organisation contracted for water quality measurements. The new method is more efficient, requiring less time and labour, and costs 20% less to implement than its predecessor.

Towards an energy-based parameter for photovoltaic classification

Problem

Sales currently based on "watts-peak" for standard test conditions that are never achieved in operation, while the most important parameter for investors is energy yield

Solution

IEC 61853 Energy Rating is being developed as international standard. Currently 4 parts are foreseen:

- Part 1: "Irradiance and temperature matrices" (published)
- Part 2: "Spectral response, incidence angle and module operating temperature measurements" Draft FDIS sent to IEC TC82 convenor by Ralph Gottschalg (REG @ Loughborough University)
- Part 3: "Modelling" CD by Robert Kenny (ESTI-JRC @Ispra)
- Part 4: "Standard datasets" NWIP by Thomas Huld (ESTI-JRC @Ispra)

Coordinator: Stefan Winter, PTB



<http://www.tiocoat.com/solar.html>

Impact

Energy Rating standard could speed up the development of solar cells optimized for the total energy output in the designated climate zones

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