

AIDA

Advanced European Infrastructures for Detectors at Accelerators

AIDA status report

- Scientific aspects
- TA summary
- Milestones/deliverables
- Mid Term Review
- Second periodic report
- Report/publication
- AIDA → H2020 AIDA-2
- Conclusion

AIDA is co-funded by the European Commission within the Framework Programme 7 Capacities

L. Serin CNRS/IN2P3 AIDA Third Annual

AIDA 3rd Annual Meeting
26-28 March 2014 Vienna University of Technology



STUDENT TUTORIAL

Trigger, DAQ and Control System
25 March 2014, Vienna University of Technology
Limited support for participants available
For more details and registration: <http://cern.ch/aida>

ORGANIZING COMMITTEE:

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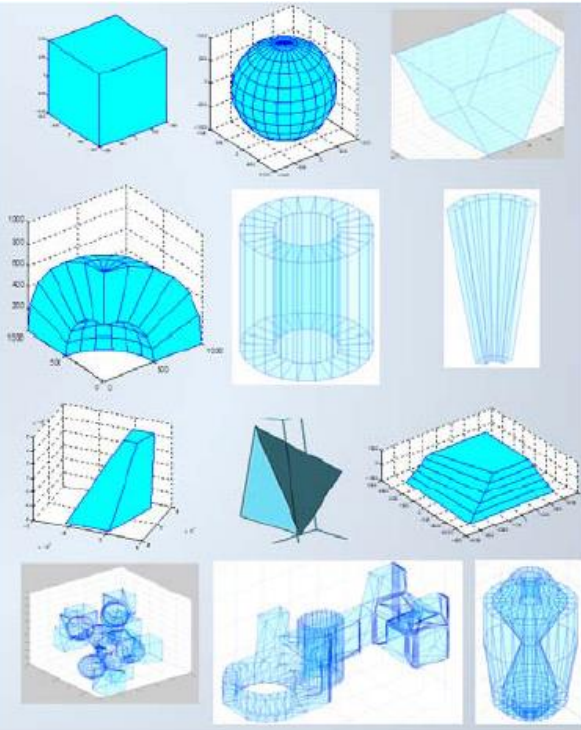
The AIDA project's third Annual Meeting brings together participants from the 80 institutes and laboratories from 23 countries to discuss the scientific and technical achievements since the start of the project.

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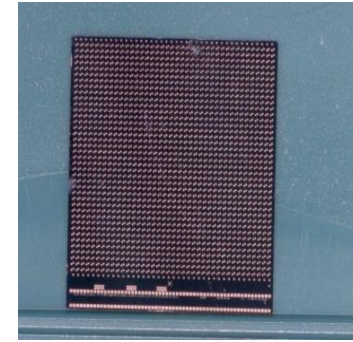
WP2 :



Geometry primitives in G4 release
 Impressive progress in
 all tasks, mostly in time

WP3 :

3D demonstrators already existing
 (with Medipix3) but some 3D
 subprojects impacted by delay in
 CMOS 65 nm technology availability
 + Tezzaron
 - Long delay in 65 nm IP blocs



SLID bonded ASICs
 RAL/Upsala

WP4 :

Academy-Industry event last
 Monday on RPC/TGC : many
 discussions
 Cell spotting tools initiated in AIDA
 now used by other community

AIDA Academia meets Industry: Resistive-Plate Chambers and Thin-Gap Chambers 24-25 March 2014, Vienna University of Technology

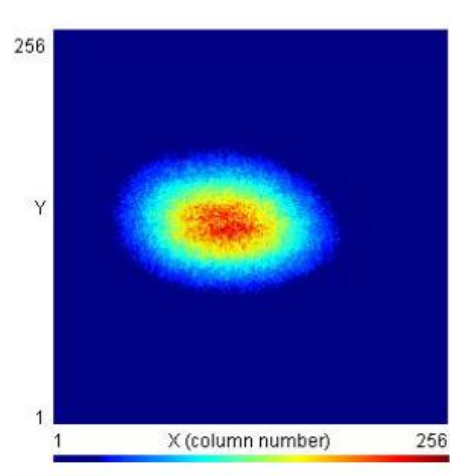


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AIDA, an EU-funded project that is addressing infrastructures for detector R&D, is organising an industry-academia matching event on resistive-plate chambers and thin-gap chambers in future detectors.
 The purpose of this event, hosted by HEPHY at TU Vienna, is to review what is considered to be at the forefront in the field of resistive-plate and thin-gap chambers and provide an overview of its key application areas, as well as to facilitate the exchange of information between academia and industry and foster more R&D collaborations between them.

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WP8 :

Many tasks under installation (East area irradiation Facility, GIF++ user infrastructure) or commissioning (TASD @ MICE, BTF equipment)

New EDMS portal and Imhotep database for qualification of components available.

Some delay on MIND, and implementation of common DAQ

WP9 :



Gaseous detector facility operational at DESY

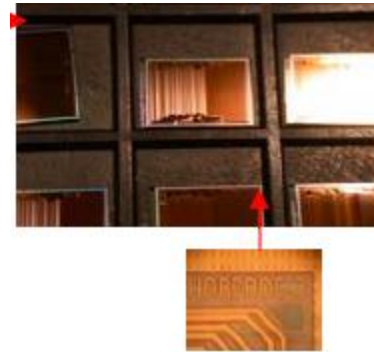


Si-strip telescope



AIDA telescope :
SALAT Demonstrator

New Ascis: Hardroc3



FCAL tungsten structure

WP9 : many elements built over last year, and some first beam test results. Still a lot to do but mostly on tracks

DESY TA (WP5) :

	User-projects (see Annex 2 for details)		Users supported (see Annex 3 for details)	Units of access (DESY = TB week)
	Eligible submissions	Selected		
Period 2 P1 (M19-M36)	(13) 22	(13) 22	125 users, of which 82 received financial support (61) over TA (44)	49,8 (23)
Foreseen for project (M1-M48) (P1+P2)	25 (35)		130 (126)	40 (73)

Target for WP5 mostly achieved, still some support in 2014.

Over period P2, main users are LHC experiment (50%) + LC collider and Belle II

CERN TA (WP6) : finished by end 2012

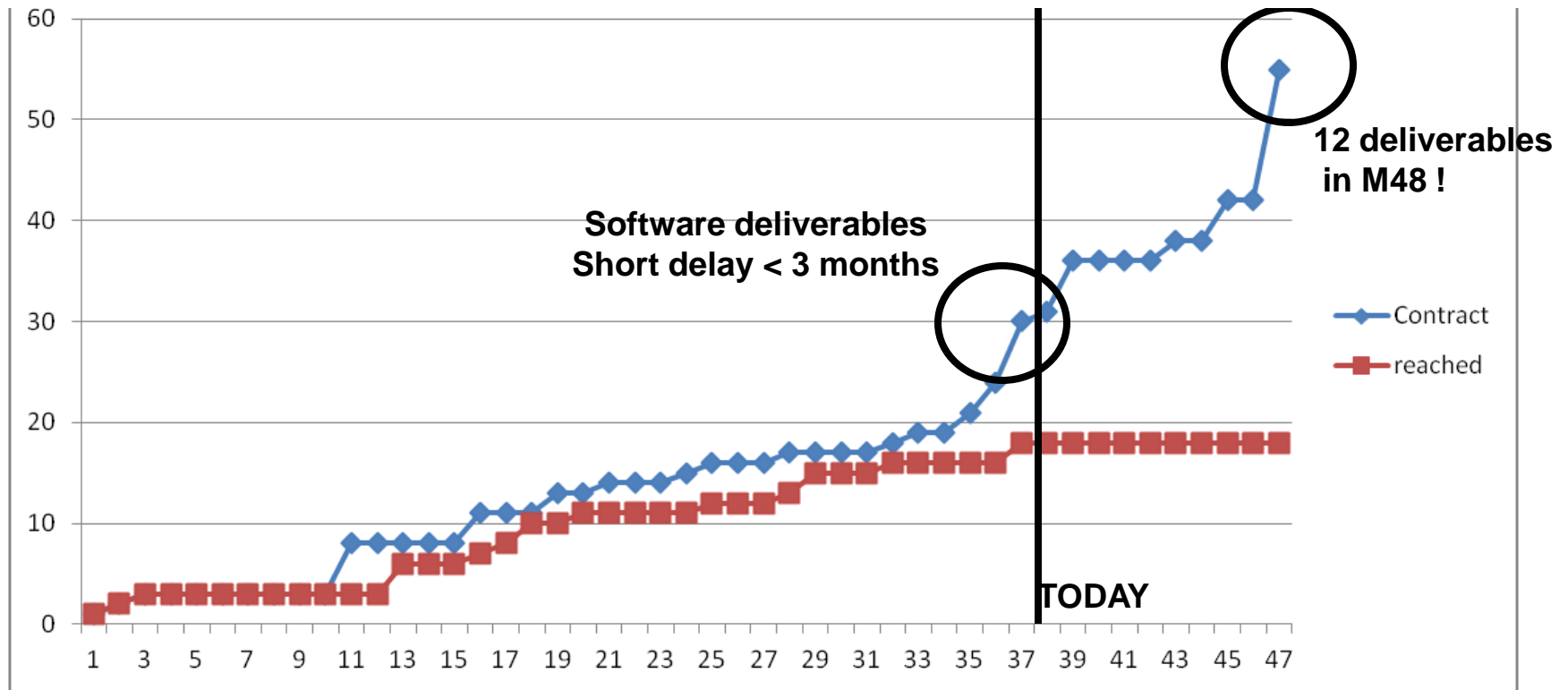
	User-projects (see Annex 2 for details)		Users supported (see Annex 3 for details)	Units of access (CERN = 8-hour shift)
	Eligible submissions	Selected		
Period 2 P1 (M19-M36)	12 (27)	10 (26)	42 (118)	534 (1186)
Foreseen for project (M1-M48) (P1+P2)	20 (39)		160 (160)	600 (1720)

European irradiation facilities (WP7) :

	User-projects (see Annex 2 for details)		Users supported * (see Annex 3 for details)	Units of access (JSI = reactor operation hour)
	Eligible submissions	Selected		
Period 2 JSI (M19-M36)	34 (32)	34 (30)	82 (55)	290 (290)
Foreseen for project (M1-M48)	90 (68)		54 (136)	540 (580)
Period 2 UCL (M19-M36)	8 (7)	8 (6)	19 (6)	148 (54.5)
Foreseen for project (M1-M48)	25 (16)		25 (25)	250 (202)
Period 2 KIT (M19-M36)	17 (15)	17 (14)	25 (19)	53.8 (74,4)
Foreseen for project (M1-M48)	40 (32)		40 (44)	160 (128)

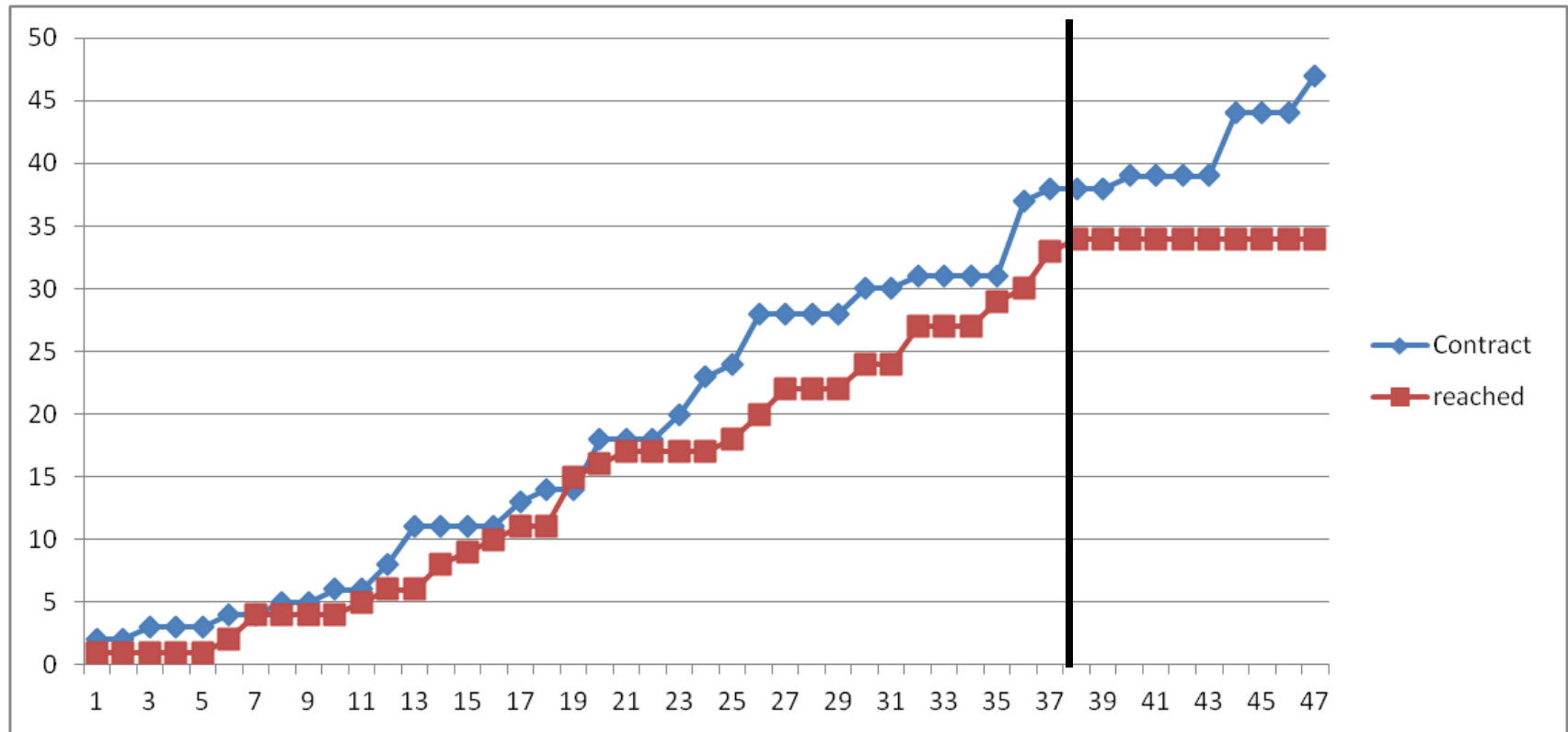
TA will be fully used by end 2014.

Validating the deliverables is a key issue for success for AIDA and would be a clear added value with respect to AIDA-2



Main issues :

- D3.4 (IP blocs in 65 nm) expected M22.... Might be modified in “Design of IP blocs in 65 nm”
- 12 deliverables in M48 ! Draft of all these deliverables will have to be ready early January 2015



Milestones are less critical with respect to EC

Internally short report of 1-2 pages.

Usually in time or delayed by 1-2 months, except MS21, 65 nm IP blocs, scheduled, M26

Mid Term review took place at Paris on April 25th 2013 with our Project Officer (M. Menna) and one external reviewer (report has been circulated to AIDA Governing Board in Sep 2013). Project is seen running well and successfully up to now.

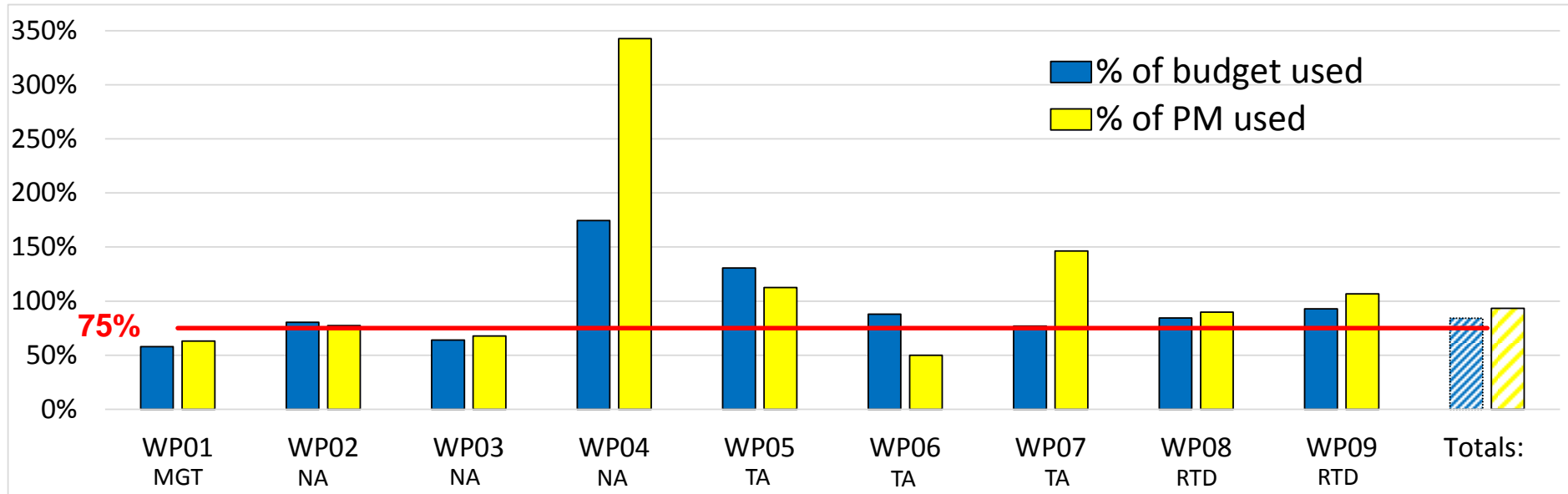
Recommendations :

- A lot of milestones/deliverable due at end of project, should review them earlier. Might need reformulation of some objectives to guarantee delivery in time
- Went through all deliverables end 2013, narrowing the contents of some deliverables and should have been scrutinized this week in // meetings
- Comments about generic codes in WP2 :
 - Some efforts has been done by WP coordinators to make most of the packages detector independent

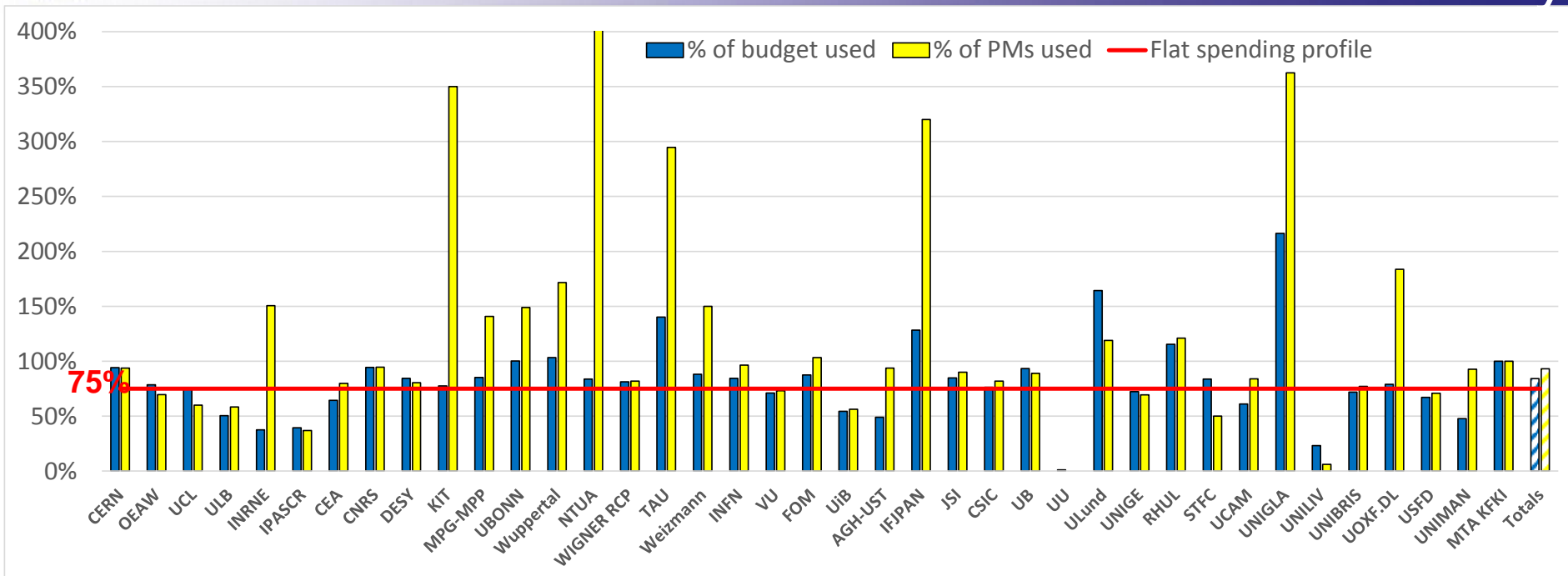
Recommendations :

- Lack of CERN test beam in 2013/2014 should review objectives or find alternatives
- Many test beams at DESY for AIDA, T ASD at MICE,...technical commissioning without beam
- Dissemination through formal publications should be improved and hopefully shall be done as the Project draws to its end.
- YES. Usual Annual meeting message : Please communicate us any presentation at conference, publication where AIDA has contributed directly (NA, JRA) or indirectly (TA) .
Scientific impact of AIDA is a key element of AIDA-2 proposal

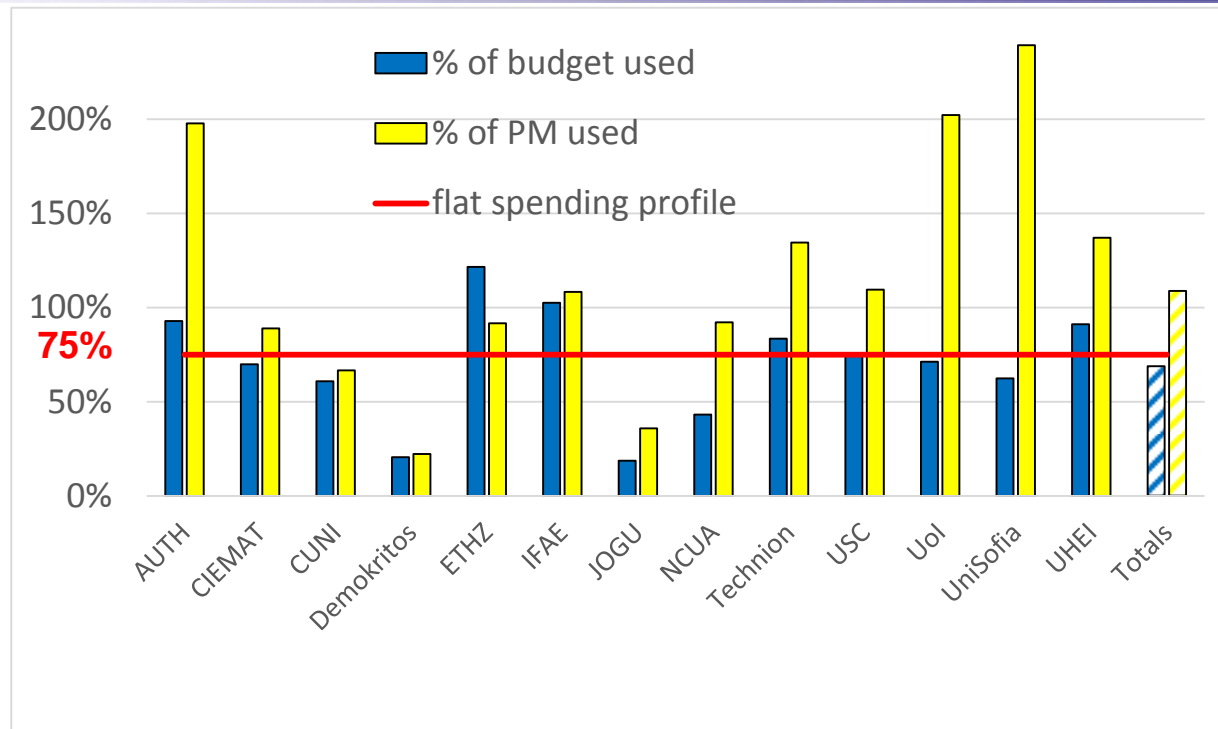
- Report is due in principle by April 1st (interference with Annual meeting...):
- Scientific part is almost ready. Will be circulated as soon as possible to Governing Board with short time for comments (< 1 week). Check in priority sections where you are involved and publications.
- Resource utilization in period P2
 - Received all Interim Report Utilization (internal AIDA)
 - Still a few form C not signed and ready for EC !!!
- Deadline for reporting is Tuesday Next week.
Will discuss with PO on Monday and will try to ask ~2 weeks delays as we were quite busy with Annual meeting
Beyond this date, if no form C, no reimbursement in Second Period for institute and will have to wait end of AIDA for reimbursement....



- more or less in agreement with flat budget used over 36 months



- on average at 75 %
- Larger resource use than what was committed is not a problem !
- Will have to investigate further situation of 2 or 3 institutes with very low commitment declared.
- To be discussed at Governing Board Friday

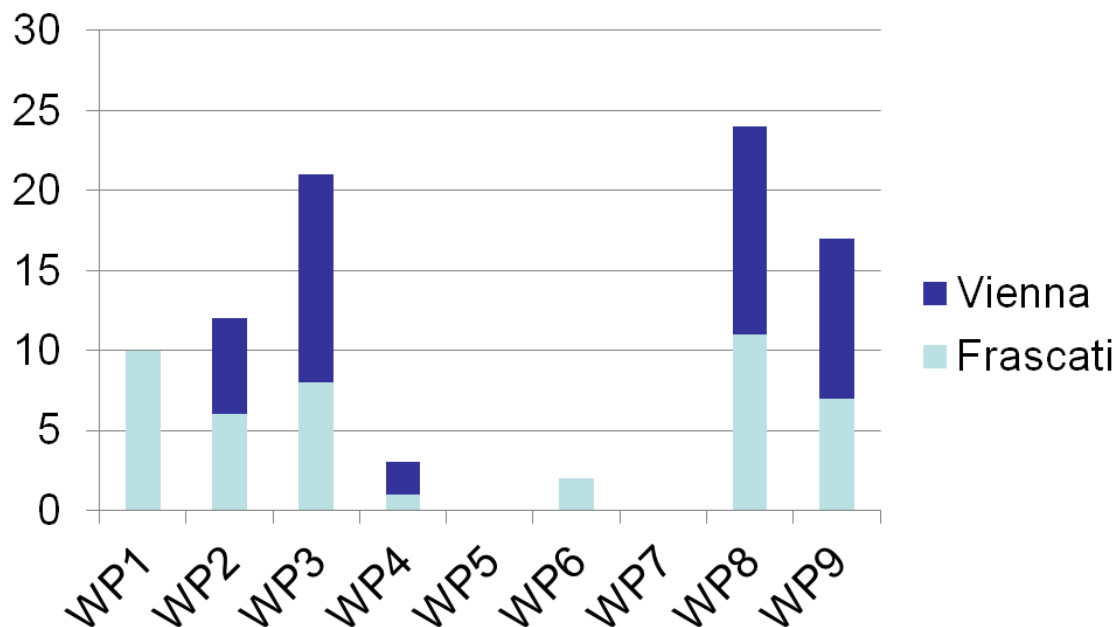


Similar situation as for beneficiary

42 documents registered in AIDA CDS at Frascati meeting, now 80... clearly some progress. About 50 % are milestone/deliverables reports, 50 % AIDA Notes or publication.

In P2 xx publications (in P1 27 publications)

Publications/conferences using TA are not registered in AIDA CDS but compiled in P2 reporting (XX while 17 in P1)



Target by end of project :

- 150 documents**
- Double notes or publication**
- In WP2, WP3, WP8 and WP9**

Ensuring a long term for the activities/infrastructures developed in AIDA was part of the objective of AIDA-WP1 :

- Answer to the I3 consultation end 2013
- Call for EoI and organization of Open meeting in Feb 2013
- Setting up a organization for AIDA-2 proposal

From now AIDA and AIDA-2 are two separate entities even if large overlap between participants/interests

AIDA-2 should be built on the foundation of a successful AIDA project

AIDA-2 organization and status in talks later in this session

- Last AIDA project year will be challenging with many activities and reports to finish in time but we need to perform successfully :

→ It will be relying on all of us

- Beyond Jan 2015, no more expense/FTE eligible for reimbursement. Strongly encourage to use all your AIDA funds by end 2014.
- To be useful, next AIDA meeting should take place before AIDA final report (31/03/15) and while people can still use AIDA funds for travel
 - Would suggest to have it on December 2014, preferentially at CERN
 - To be discussed at Governing Board on Friday