Measurements: Mapping Manipulation in the Internet

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measurement and architecture for a middleboxed internet

measurement   architecture   experimentation

What We've Done since January:
Tools and Measurements (tasks 1.1, 1.2)

- Measurement Tools (task 1.1)

  - Copycat, PathSpider, Revelio

- Initial Measurement (task 1.2)

  - UDP/TCP treatment with Atlas [ETH] and Copycat [ULg]

  - ECN and TCP Fast Open impairment with PathSpider [ETH]

  - Tracebox measurement campaigns [ULg]

  - CGN measurement campaigns with Revelio [SRL]

  - .observatory.mami-project.eu VMs, maintained by [ETH]

What We've Done since January: Observatory (task 1.4)

- Data model nearing completion

- Software in github and running at ZHAW:

  - observatory-upload: manage raw data

  - pto-core: turn raw data into observations

  - pto-web: front-end (work in progress)

- Initial alpha-quality demo for October review in Barcelona

- Public release by end of year

DoW: Who Does What?

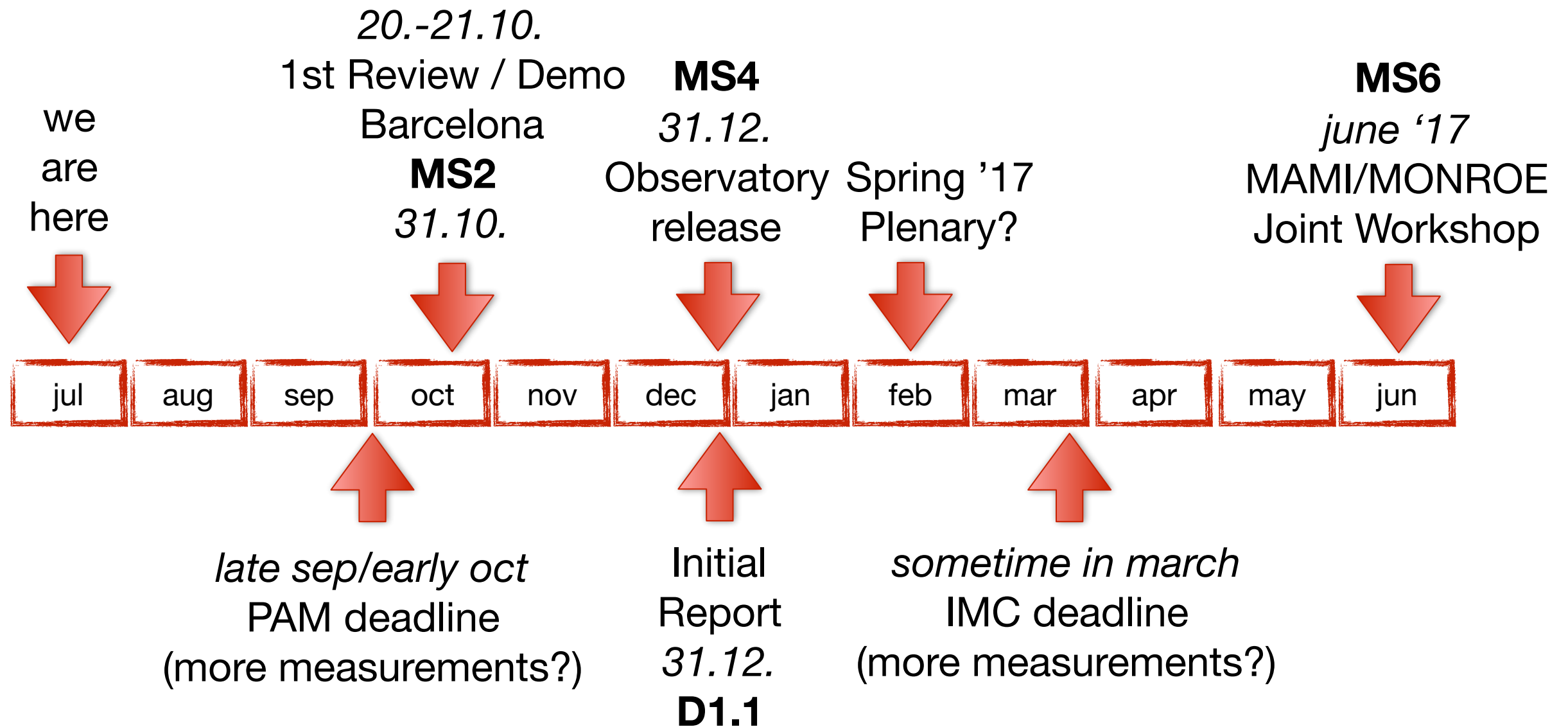| Partner	MM	Task 1.1 Methodology and Tools	Task 1.2 Initial Measurement	Task 1.3 Large-Scale Measurement	Task 1.4 Data Model and Observatory
ETH	20	✓ pathspider (+mPlane SDK)	✓	✓ Edit D1.3 (2018)	✓ Edit D1.2 (2017)
ULg	12	✓ tracebox	✓ Edit D1.1 (Dec)		
UoA	15	✓ pathspider	✓	✓	
ZHAW	8				✓
SRL	6	✓ revelio		✓	

What Gets Done When?

20.-21.10.
1st Review / Demo
Barcelona
MS2
31.10.

we
are
here

MS4
31.12.
Observatory
release

Spring '17
Plenary?

MS6
june '17
MAMI/MONROE
Joint Workshop

jul	aug	sep	oct	nov	dec	jan	feb	mar	apr	may	jun

late sep/early oct
PAM deadline
(more measurements?)

Initial
Report
31.12.
D1.1

sometime in march
IMC deadline
(more measurements?)

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D1.1 Initial Report on Measurement Development and Deployment

- DoW says:

  "(a) describe the measurement techniques used within WP1, including new techniques developed within the scope of the project in Task 1.1; (b) describe the deployment and results of measurements within Task 1.2; and (c) summarise results of data collected during the first year of the project."

- Proposed organization: three chapters (+front/backmatter)

  - Techniques and Implementation (one section per tool)

  - Measurement Campaigns (one section per campaign)

  - Initial Observatory Data Model and Analysis Fram (anticipating D1.2)

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