UC2.2.2 - Quasi interactive analysis of big data with high throughput
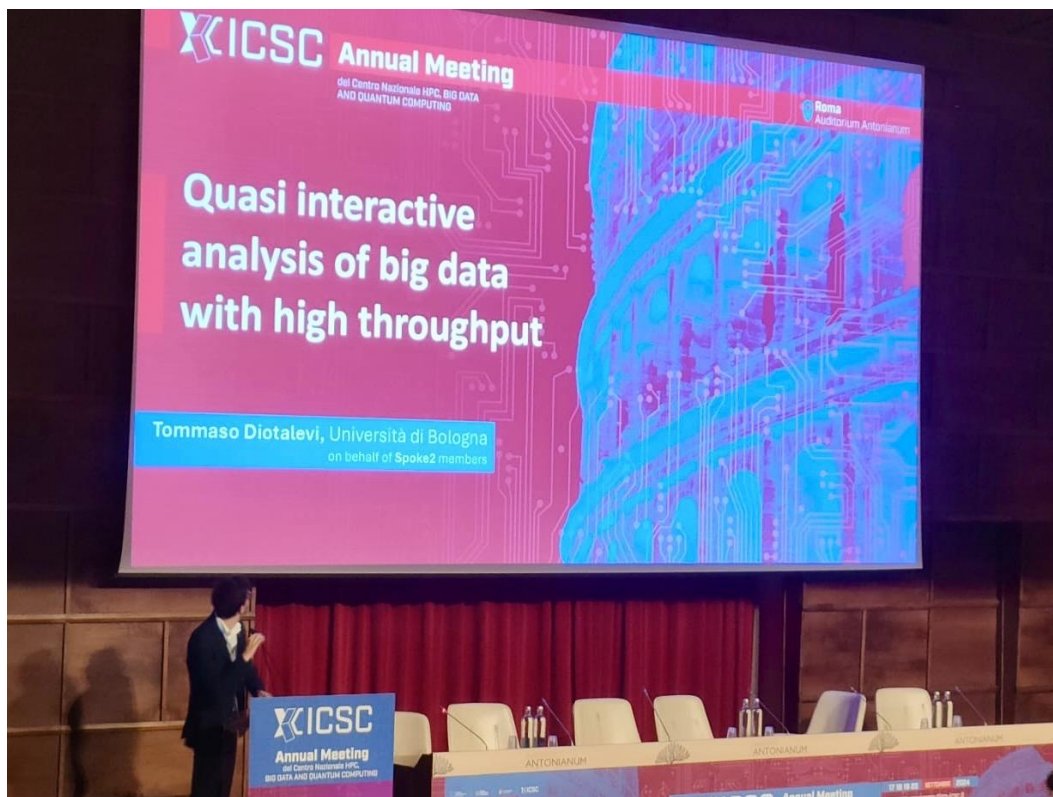## Tommaso Diotalevi (UniBO), Francesco G. Gravili (UniSalento)

WP2 Meeting - 22 October 2024

Milestone 9

- A draft version of the report for MS9 is available in the [workflow document](#).

  - Some points are still TBD, but feel free to comment in case something is missing or is not correct!

- There are no intermediate KPIs associated to this milestone, since all the remaining objectives have been set for MS10 (end of project).

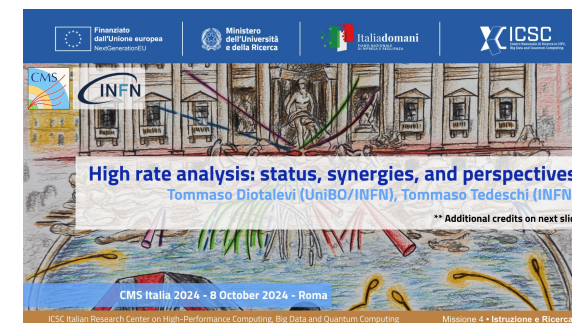# Speaking about this flagship activity

[ICSC Annual Meeting](#), Rome (17-20 Sept 2024)

- Young researcher talk, regarding the Spoke 2 activities.

CMS Italia Workshop, Rome (7-9 Oct 2024)

- Discussion on high rate analysis activities (CMS and ICSC specific).

News from WP5

- **The ICSC facility is available**:
  - Technical configuration available on the official ICSC-Spoke2 repository (maintained by WP5).
  - **Entrypoint**: https://hub.131.154.98.51.myip.cloud.infn.it/
- The documentation (under construction) is here
- Some aspects still TBD (e.g. data management, cvmfs, ...)

- The first batch of resources given by the RAC are: 128 vCORE (with 2GB RAM per core) and 50TB of storage (for user areas). If your use case requires greater storage (for keeping ntuples), tell us!
- Plan is to extend such pool, up to 670 vCORE.

Conference opportunities for our flagship

- Contributions given at:

  - ICHEP conference:

    - *"Benchmarking distributed-interactive HEP analysis workflows on the new Italian National Centre analysis infrastructure"* (poster contribution);
    - *"Enhancing CMS data analyses using a distributed high throughput platform"* (oral contribution).

- Abstract accepted at:

  - CHEP conference (happening now):

    - *"Leveraging distributed resources through high throughput analysis platforms for enhancing HEP data analyses"*: joint CMS/ATLAS oral contribution.

    - *"Declarative paradigms for data analysis description and implementation"* oral contribution.
    - *"Continuous integration of analysis workflows on a distributed analysis facility"* poster contribution.

For every submission, please contact us for keeping track and also fill the WP2 Tracking document !

ICSC Workshop on Analysis Facilities

- <u>Location</u>: Bologna (in presence and online)

- <u>Time window</u>: January - February 2025

- <u>Format</u>: 3 days, 2 days + 1 day reserved to different collaborations.

If you are interested to help (tutoring, logistics), feel free to ask!

We will circulate an agenda in the following weeks!

KPI – Key Performance Indicator

KPI ID	Description	Acceptance threshold	Status
KPI2.2.2.1	Implementation of N data analyses in the AF	$N \geq 2$	>100%
KPI2.2.2.2	Reference documentation of the AF	≥ 1 dedicated web site	100%
KPI2.2.2.3	Hands-on workshops for AF users	≥ 1 workshops	0% (early '25)
KPI2.2.2.4	Scaling up the testbed AF infrastructure, serving k tenants, for a total of N data analyses	$\geq (200 \cdot M)$ cores	32% (1 of 2 batches)
KPI2.2.2.5	Talks at conferences/workshops about AF activities	≥ 1 talk	>100%

Thank you

cn1-spoke2-wp2-analysisfacility@lists.infn.it   (click here to subscribe or get in touch in case of issues)