

**ICSC**  
Centro Nazionale HPC,  
Big Data e Quantum Computing



WP5: HPC Services and Access

Dario Gasparri for the WP5  
group

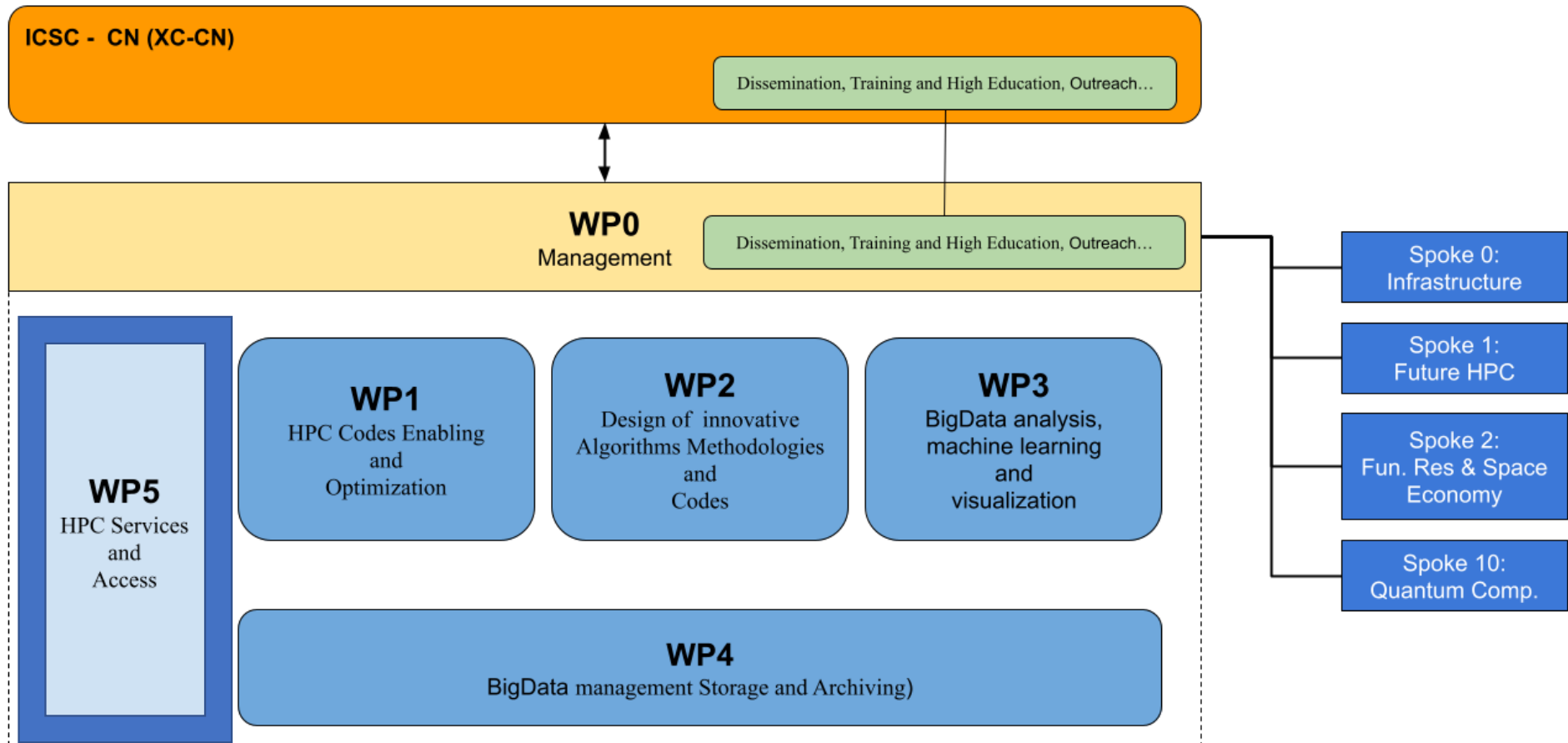
INFN Roma Tor Vergata

Kick off meeting 27/10/2022

# WP5: HPC Services and Access

- **Scope:** Managing, maintaining and deploying an integrated environment providing the tools for the efficient development of the work described in the other WPs
  - **T5.1 Collaborative software development, management and continuous integration platform**
  - **T5.2 Design, implementation and validation of an interoperable service architecture**
  - **T5.3 ML and Visualization enabling services deployment and HPC/Cloud integration**
- WP leader: Dario Gasparrini (INFN Roma2), Co-Lead: Diego Chiangottini (INFN PG)

# WP interactions





# Drafting a path forward: a first proposal

- Use cases and requirements: survey to all the WPs
- Collecting solutions already available:
  - They can help for the most common cases resulting from the survey.
- Focus on enabling tools already evaluated in other initiatives:
  - Data access and data transfer (synergy WP4 and Spoke 2)
  - Resources access (synergy among all WPs)
  - Solutions for pipeline definition and execution (synergy among all WPs)
- Dedicated Meeting to show and share the solutions found and the state-of-the-art
- Discussion on a minimum seed for a first test bed with some of the users showcase

# Critical points

- Testbed resources
  - Previous talks maybe already hinted, but we need to know which and where there will be available resources to our first basic tests
- Effort
  - Given the actual effort quantity (next slide), it is crucial to start «small and practical» with a minimum set of target in mind.
  - After the first results, we can have a second round to define priority for new development and to manage possible criticalities

# Institutions Efforts

| Institution  | Partecipants  | PMs  |
|--|---|------|
|   | Dario Gasparrini, Diego Ciangottini, Matteo Duranti, Valerio Formato, TD, Borsa "PhD" | 72   |
|  | Romolo Politi, Cristina Re, Fabio Vitello, TD   | 27.3 |

# Milestones

| #ID | Deliverable name                            | Short description   | Lead       | Type   | Dissemination level | Delivery date (months) |
|-----|---|---|------------|--------|---------------------|------------------------|
| D3  | Spoke Project plan (M4.2)                   | all WPs Activity plans  | INAF, INFN | Report | Public              | M4                     |
| D4  | Activity Status Report (M6.1)               | Science Cases/Requirements definition activity status report<br>Internal spoke common services definition status report | INAF       | Report | Public              | M6                     |
| D8  | First year activities report (M12.2)        | Spoke first year activities report  | INAF (ALL) | Report | Public              | M12                    |
| D9  | Internal spoke common services (M12.3)      | Common service (for code versioning, profiling, debugging and tools development) definition document                    | INFN       | Report | Public              | M12                    |
| D11 | Integrated environment (M12.5)              | Integrated environment implementation document(s)   | INFN       | Report | Public              | M12, M24               |
| D15 | Spoke second year activities report (M24.2) | Spoke second year activities report   | UniTOV     | Report | Public              | M24                    |
| D29 | Final WP5 activity report (M36.6)           | Final WP5 activity report and final public release of all WP products: infrastructures, codes and documentation         | INFN       | Report | Public              | M36                    |



# How to participate

- Mail to WP5 leaders ([dario.gasparrini@roma2.infn.it](mailto:dario.gasparrini@roma2.infn.it) and [diego.ciangottini@pg.infn.it](mailto:diego.ciangottini@pg.infn.it) ) for now
- We will have collaborative software to better manage the spoke communication for now we use Google Suite