









WP5 HPC service and Access

Gasparrini Dario

Spoke 3 General Meeting

12-14 Giugno 2023

Dipartimento di Fisica e Astronomia – Università di Catania











Scope: Managing, maintaining and deploying an integrated environment providing the tools for the efficient development of the work described in the other WPs

Tasks:

- 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)









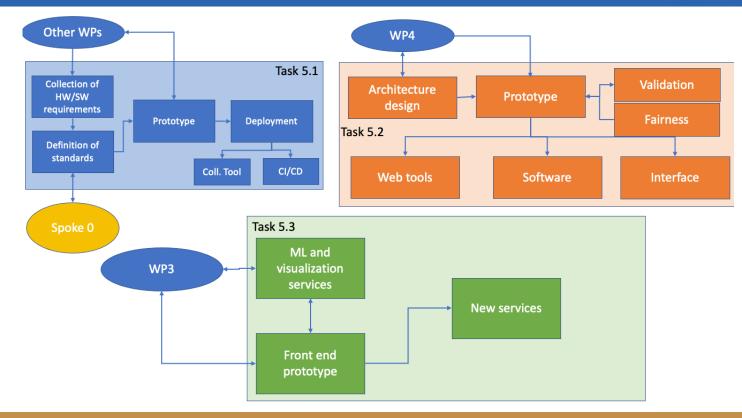
- Dario Gasparrini (INFN)
- Diego Ciangottini (INFN)
- Romolo Polito (INAF)
- Cristina Re (INAF)
- 1- year Technologist (INAF) after summer
- 2-year Technologic Grant (INFN), results soon
- Matteo Duranti (INFN)
- Valerio Formato (INFN)



















Legenda		settembre 202	ottobre 2022	novembre 202	dicembre 2022	gennaio 2023	febbraio 2023	marzo 2023	aprile 2023	maggio 2023	giugno 2023	luglio 2023		settembre 202	ottobre 2023	novembre 202	dicembre 2023	gennaio 2024	febbraio 2024	marzo 2024	aprile 2024	maggio 2024	giugno 2024	luglio 2024	agosto 2024	settembre 202	ottobre 2024	novembre 202	ğ	gennaio 2025	febbraio 2025	marzo 2025	aprile 2025	maggio 2025	giugno 2025	luglio 2025	agosto 2025
Legenda	Durata task						Ye	Year 1										Year 2												Year 3							
	Durata attività	Q1			C		Q2		Q3	Q4		Q4			Q5			Q6			Q7		Q8			Q9				Q10			Q11		Q12		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Project Milestones			M1		M2		M3						M4				M5								M6				M7								M8
WP 5 task	Attività																	HPC S	ervice	s and A	ccess																
T5.1: Collaborative software development, management and continuous integration platform	Collection of HW/SW requirements																																				
	Definitions of standards																																				
	Prototype design																																				
	Integration and Validation																																				
	Report writing																																				
	Architecture design																																				
T5.2: T5.2 Design, implementation and validation of an interoperable service architecture	Prototype development																																				
	Integration & Validation (FAIR)																																				
	Code Release and Documentation																																				
	Internal Report writing																																				
	Report writing																																				
	ML and Visualization design		П																																		
T5.3 ML and Visualization enabling services deployment and HPC/Cloud integration	Frontend prototype development																																				
	Integration & Validation																																				
	Code Release and Documentation																																				
	Internal Report writing																																				
	Report writing																																				
Deliverables					D3		D4						D8 D9												D11 D15												D29









Collection of HW/SW requirements (Task 5.1):

Waiting for hub suggestions, we requested to all working groups to estimate what they need in terms of HW/SW

- Batch system
- Continuous integration
- CPU time
- RAM
- Architecture
- Accelerators
- ..









Collection of HW/SW requirements (Task 5.1):

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- Batch system
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- RAM
- Architecture
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A letter was sent especially about our request in term of CPU time and RAM









Collaborative software (Task 5.1):

Waiting for hub suggestions, we explored the opportunity to have a documental repository using known software like RedMine, Confluence (using a INFN licence) but we understood that is better a open and free solution.

While exploring these opportunities, we will continue to use Google Documents as a document repository





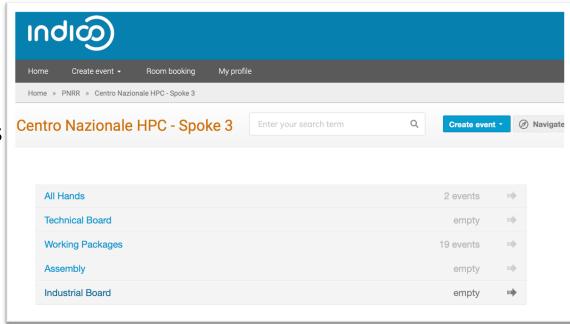




Collaborative software (Task 5.1):

As above, we started our Indico pages to keep tracks of our meetings, our minutes.

Now Indico is hosted by ict.inaf.it











Collaborative software (Task 5.1):

We are in contact with a website design company to create a website.

It will be very similar to the Hub website where you will access to it











Collaborative software (Task 5.1): Website Features

- Wordpress as content management system (easy and responsive)
- Updated weekly or biweekly with the news and the progress from Spoke
 3
- Private login space (for any purpose)
- Software repository link (login protected)
- Documental repository link (login protected)

Now it will be hosted by ict.inaf.it on a virtual machine waiting hosting from ICSC









Future activities

We are trying to understand if GitHub can be used as software repository

Ad interim, I will be in charge of the content creation of the website, but I need help (text, images, ...) from other WP leaders

As soon some space is available at ICSC resources, we will start to move everything there