



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under GA No 101004730.

# Towards Milestone Report MS21 for EuroNNAc in May 2023

19 – 26 September 2022, Elba, Italy

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# NPACT/EuroNNAc Meeting Saturday

- Saturday will discuss EAAC2023, proposal of a new Bob Siemann prize, how to make our facilities and projects a full success, ...
- Let us know your proposals for the future of the field.
- If you are around, please join us!



# WP6 Deliverables

Later (after  
EAAC 2023)

Nov 2024

## Deliverables related to WP6

### **D6.1:** EAAC workshops and strategies.

*Report on the EAAC workshops as strategic forums for international accelerator R&D and resulting strategies*

M42

### **D6.2:** LASPLA Strategy.

*Report on a strategy for laser drivers for plasma accelerators.*

M46

### **D6.2:** Electron acceleration experiments with new targets.

*Report on electron acceleration with micro-scale target at a kHz repetition rate, and with long targets at the multi-Joule level.*

M24

### **D6.4:** Improvement of the laser intensity stability on target.

*Report showing the stability on two laser facilities before and after improvement.*

M36

# WP6 Milestones

NOW

May 2023

- MS21: Report on the novel accelerator landscape in Europe, facilities, projects and capabilities at the beginning of the 2020's. Lead – DESY, M24, Publication, website (task 6.1)
- MS22: LASPLA Workshop/School. Lead – CNR, M30, Report (task 6.2)
- MS23 Target manufacturing and characterization. Lead – CNRS, M12 Report (task 6.3)
- MS24: Hypothesis on the causes of the instabilities of the focal spot profile. Lead – CNRS, M24 Publication (task 6.4)

This Special Topics workshop will **prepare the milestone MS21**.  
Thanks to all **session organizers** and **participants** for your help!

# Outcome of Workshop

- The **special topics (nine, proposed by our community)** gave an excellent overview of our field and the activities of network institutes and the network itself.
- Talks (almost) all on **INDICO**. Student and other posters as well.

<https://agenda.infn.it/event/28376/timetable/#20220923>

- Now:
  - The ST co-ordinators present their **short summaries** on slides
  - Slides documented on INDICO
- Slides will be used to report WS outcome to **I-FAST steering meeting**

# Producing the MS21 Report

- ST co-coordinators prepare a **1.5 – 2 page** (can be more) written summary for topic:
  - NO template required, any format fine.
  - Text required, readable to EU level reviewers. References to talks and papers OK.
  - 1 Figure plus 1 Table per 2 pages max.
  - ST co-coordinators distribute to all participants for comments.
- Major questions to address for each special topic:
  - What are **facilities** available and presented?
  - What are the major **projects** presented and discussed?
  - What are our **capabilities** – covering what we need or something mentioned as missing?
  - What are the next steps listed and what is the outlook into the future?
  - Any **important message** we want to pass to I-FAST and EU for the specific special topic?
- Proposed deadline for sending to RA & MF: **1 Nov 2022** (easier close to WS)
- We will assemble it and iterate the report with WS participants.





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for your help!



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18:00

<b>Summary - Beam-driven Plasma Accelerators with focus on proton-driven</b>	<i>Edda Gschwendtner et al.</i>	<a href="#">🔗</a>
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:00 - 18:07	
<b>Summary - Simulation tools and roadmap</b>	<i>Jorge Vieira et al.</i>	<a href="#">🔗</a>
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:07 - 18:14	
<b>Summary - Laser Technology and LWFA Results (e-, p+, ion)</b>	<i>Leonida Antonio Gizzi et al.</i>	<a href="#">🔗</a>
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:14 - 18:21	
<b>Summary - Distributed Plasma Accelerator Landscape in Europe and Technical Progress towards Applications (EuPRA)</b>	<i>Enrica Chiadroni et al.</i>	<a href="#">🔗</a>
<b>Summary - Talks and discussion on plasma-based FEL experiments</b>	<i>Arie Irman</i>	<a href="#">🔗</a>
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:28 - 18:35	
<b>Summary - Particle physics plasma test facility (multi-stage, 10`s of GeV)</b>	<i>Carl Schroeder</i>	<a href="#">🔗</a>
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:35 - 18:42	
<b>Summary - EuroNNAc Student and Young Researcher Program - Posters, prizes, ...</b>	<i>Bernhard Holzer et al.</i>	<a href="#">🔗</a>
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:42 - 18:49	
<b>Summary - International Landscape: Facilities, projects, initiatives</b>	<i>Mark Hogan et al.</i>	
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:49 - 18:56	
<b>Summary - Structure-based accelerators (e.g. ACHIP) and advanced radiation generation schemes</b>	<i>Rasmus Ischebeck</i>	<a href="#">🔗</a>
<i>Sala Maria Luisa - Hotel Hermitage</i>	18:56 - 19:03	

19:00

EUROPEAN NETWORK FOR NOVEL ACCELERATORS

**EuroNNAc<sub>4</sub>**

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