

## WPDTT1-ADC Annual Planning Meeting 2020

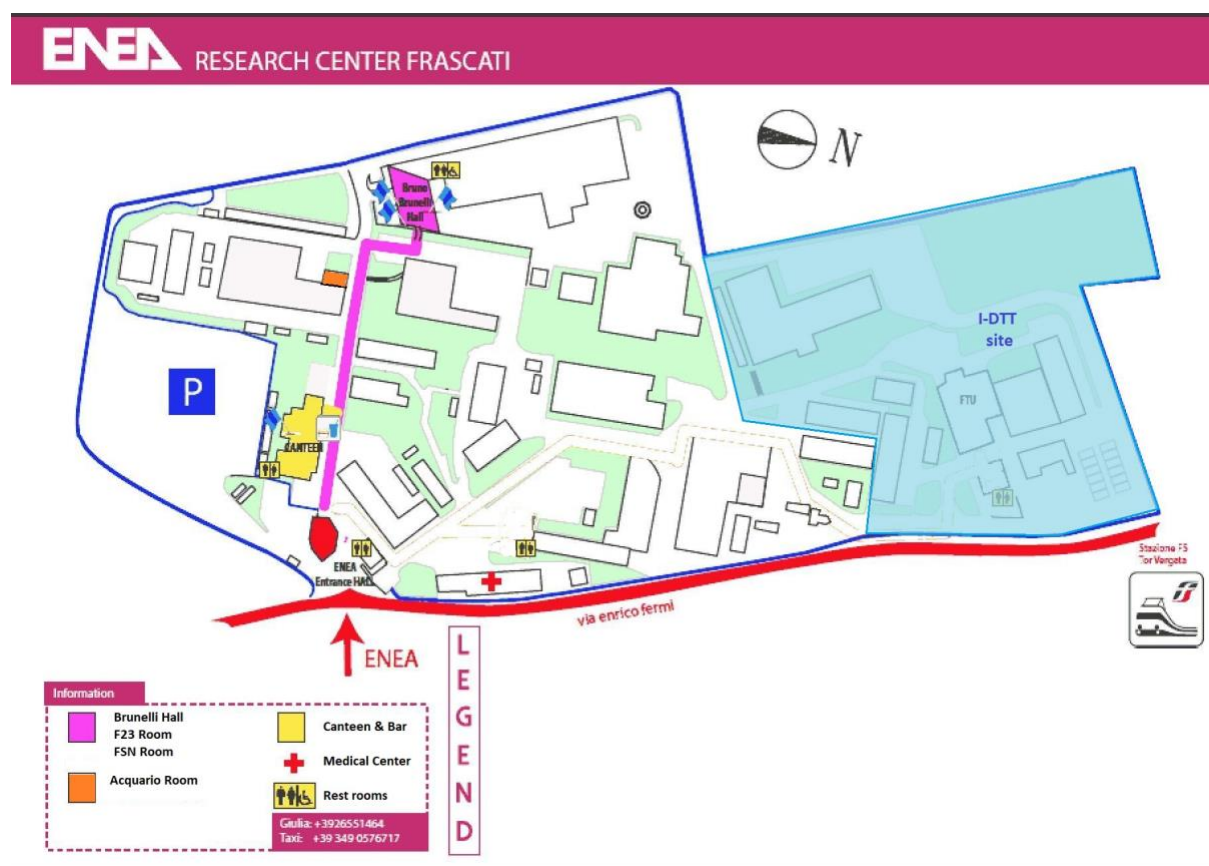
ENEA, Frascati

Dates: 3-6/2/2020

Venue: ENEA Research Centre, Frascati

Rooms: Brunelli hall (different rooms for parallel sessions)

VC: FusionTV chan. 4, <https://tv.euro-fusion.org/channel4/home>, audience pwd: show



**NOTE: start and end times below are CET times.**

| <b>Monday, February 3rd – Brunelli Hall – Review of 2019's work</b> |       |          |   |
|---|-------|----------|---|
| Start   | End   | Duration | Title   |
| 8:45  | 8:55  | 0:10     | Welcome   |
| 8:55  | 9:05  | 0:10     | Ground rules for work in the work package                     |
| 9:05  | 9:30  | 0:25     | Introduction to the Work Package by Project Leader            |
| 9:30  | 10:10 | 0:40     | E-1 (20mins talk + 20 mins discussion)                        |
| 10:10   | 10:20 | 0:10     | Coffee Break  |
| 10:20   | 11:00 | 0:40     | P-1 (20mins talk + 20 mins discussion)                        |
| 11:00   | 11:40 | 0:40     | P-2 (20mins talk + 20 mins discussion)                        |
| 11:40   | 12:20 | 0:40     | P-4 (20mins talk + 20 mins discussion)                        |
| 12:20   | 14:00 | 1:40     | Lunch Break   |
| 14:00   | 14:40 | 0:40     | TSVV 2b European Edge Code (20mins talk + 20 mins discussion) |
| 14:40   | 15:20 | 0:40     | E-4 (20mins talk + 20 mins discussion)                        |
| 15:20   | 15:30 | 0:10     | Coffee Break  |
| 15:30   | 16:00 | 0:30     | E-2 (15mins talk + 15 mins discussion)                        |
| 16:00   | 16:30 | 0:30     | P-3 (15mins talk + 15 mins discussion)                        |
| 16:30   | 17:00 | 0:30     | P-5 (15mins talk + 15 mins discussion)                        |
| 17:00   | 17:30 | 0:30     | E-5 (15mins talk + 15 mins discussion)                        |
| 17:30   | 18:00 | 0:30     | Status of I-DTT   |

**NOTE: start and end times below are CET times.**

| <b>Tuesday, February 4th – Brunelli hall – 2020 work Implementation of the task specifications, part I</b> |       |          |  |
|--|-------|----------|--|
| Start  | End   | Duration | Title  |
| 8:45   | 9:00  | 0:15     | Introduction to the task specifications philosophy |
| 9:00   | 10:00 | 1:00     | P-1  |
| 10:00  | 10:30 | 0:30     | P-5  |
| 10:30  | 11:00 | 0:30     | P-3  |
| 11:00  | 11:20 | 0:20     | Coffee Break                                       |
| 11:20  | 12:40 | 1:20     | E-1 & E-2  |
| 12:40  | 14:00 | 1:20     | Lunch Break  |

| Long term strategy for alternative configurations in DEMO |       |      |   |
|---|-------|------|---|
| 14:00   | 14:20 | 0:20 | Physics and Engineering Constraints (20mins talk)   |
| 14:20   | 15:20 | 1:00 | What have we learnt about ADCs? (open discussion)   |
| 15:20   | 15:30 | 0:10 | Coffee Break  |
| 15:30   | 17:00 | 1:30 | Opportunities/Criticalities and how to move forward |
| 17:00   | 18:00 | 1:00 | Remaining gaps and strategy going forward           |
| 20:00 Social Dinner                                       |       |      |   |

**NOTE: start and end times below are CET times.**

| Wednesday, February 5th – Brunelli hall – 2020 work Implementation of the task specifications, part II |       |          |  |
|--|-------|----------|--|
| Start  | End   | Duration | Title  |
| 8:45   | 9:45  | 1:00     | E-5  |
| 9:45   | 10:25 | 0:40     | E-4  |
| 10:25  | 10:40 | 0:15     | Coffee Break   |
| 10:40  | 11:40 | 1:00     | P-2  |
| 11:40  | 12:20 | 0:40     | P-4  |
| 12:20  | 12:40 | 0:20     | Closing of the plenary sessions  |
| 12:40  | 14:00 | 1:20     | Lunch Break  |
| 14:00  | 17:30 | 3:30     | Parallel sessions on interaction between Activities<br>P1/P2/P4<br>P1/P3<br>E1/E2/P1/P3<br>E1/E5 |
| 17:30  | 18:00 | 0:30     | Summary of parallel sessions   |

**NOTE: start and end times below are CET times.**

| Thursday, February 6th – Brunelli hall – 2020 activities, and closing |       |          |                                       |
|---|-------|----------|---------------------------------------|
| Start   | End   | Duration | Title                                 |
| 8:45  | 10:30 | 1:45     | Parallel Activity meetings (optional) |
| 10:30   | 10:45 | 0:15     | Coffee Break                          |
| 10:45   | 12:30 | 1:45     | Parallel Activity meetings (optional) |
| 12:30   | -     | -        | Lunch                                 |

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### **Legenda of the activities included in the ADC project:**

(models and simulations for proposed Alternative Divertor Configurations (DN, SX, SF, XD))

#### ***Physics area of alternative configurations for DEMO***

**P-1:** Fluid models (access and stability of detachment, X-point radiation)

**P-2:** Turbulent transport (SOL width and divertor heat flux spreading)

**P-3:** Particle exhaust (pumping simulations)

**P-4:** Experimental test of models (assessment of DEMO exhaust, simulations of I-DTT)

**P-5:** Extrapolation models (power distribution for in/out connection lengths)

#### ***Engineering area of alternative configurations for DEMO***

**E-1:** Configurations (EM and mechanical assessment of structures, PF and TF coils)

**E-2:** Control (vertical active control with outer vessel and in-vessel coils)

**E-4:** Compatibility of I-DTT (integration and controllability of scenarios in I-DTT)

**E-5:** Neutronics (models with HCPB blankets, evaluation of TBR and irradiation)