

Kick-off meeting:

‘Recycl3D: Recycled aggregates for 3D printed concrete structures’

Date: June 7–8, 2022

Location: Barcelona

Organiser: Universitat Politècnica de Catalunya (UPC)

Programme

Monday, June 6

All day Arrival of Participants

20:00– Dinner

Tuesday, June 7

- 09:30–10:00 Arrival of Participants to UPC
- 10:00–10:30 Welcome ceremony and host presentation (*UPC*)
- 10:30–12:00 Meeting kick-off, introduction of participants and project overview (see **Session 1**)
- 12:00–12:15 Coffee break
- 12:15–13:30 Visit of Campus Nord and LATeM laboratory
- 13:30–15:00 Lunch
- 15:00–17:30 Presentation of Work packages and Tasks (WP and Task leaders) (see **Session 2**)
- 18:00–20:00 Technical visit to Sagrada Familia
- 20:30– Dinner

Wednesday, June 8

- 09:00–11:00 Visit of CIM UPC additive manufacturing centre
- 11:00–11:30 Coffee break
- 11:30–13:30 Presentation of Work packages and Tasks (WP and Task leaders) (see **Session 3**)
- 13:30–14:30 Lunch
- 14:00–16:00 Discussion of next steps, activities and meetings (see **Session 3**)
- 16:00–16:15 Coffee break
- 16:15– Departure of Participants/Free activities

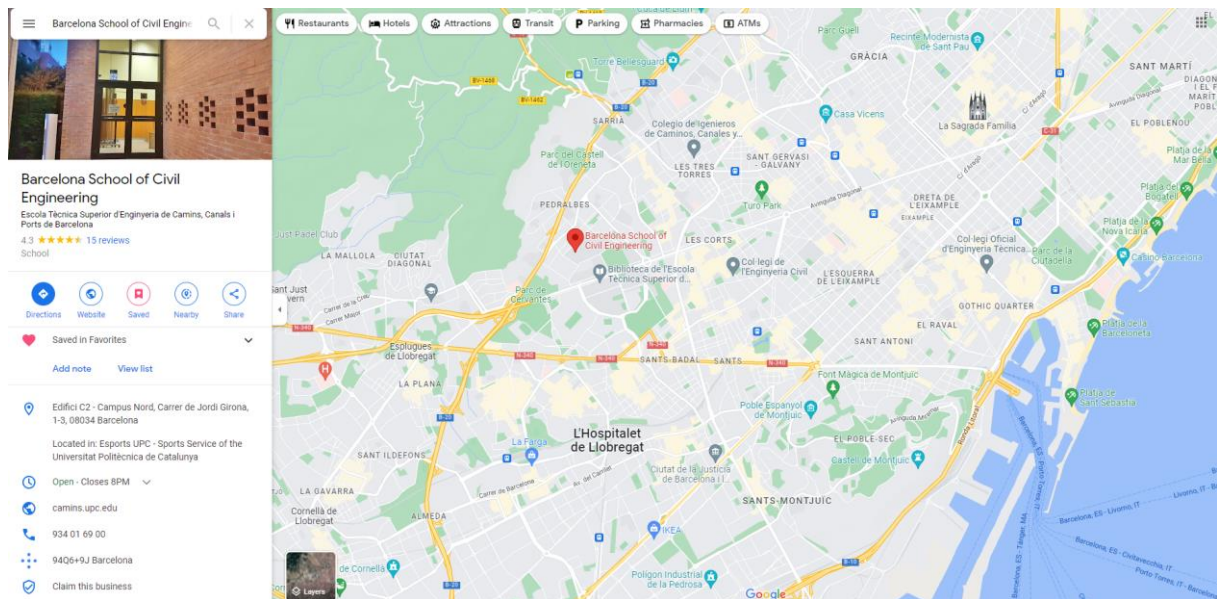


Location:

The meeting will be held at the UPC School of Civil Engineering within Campus Nord (North Campus) of UPC in Barcelona.

Building C1, Campus Nord

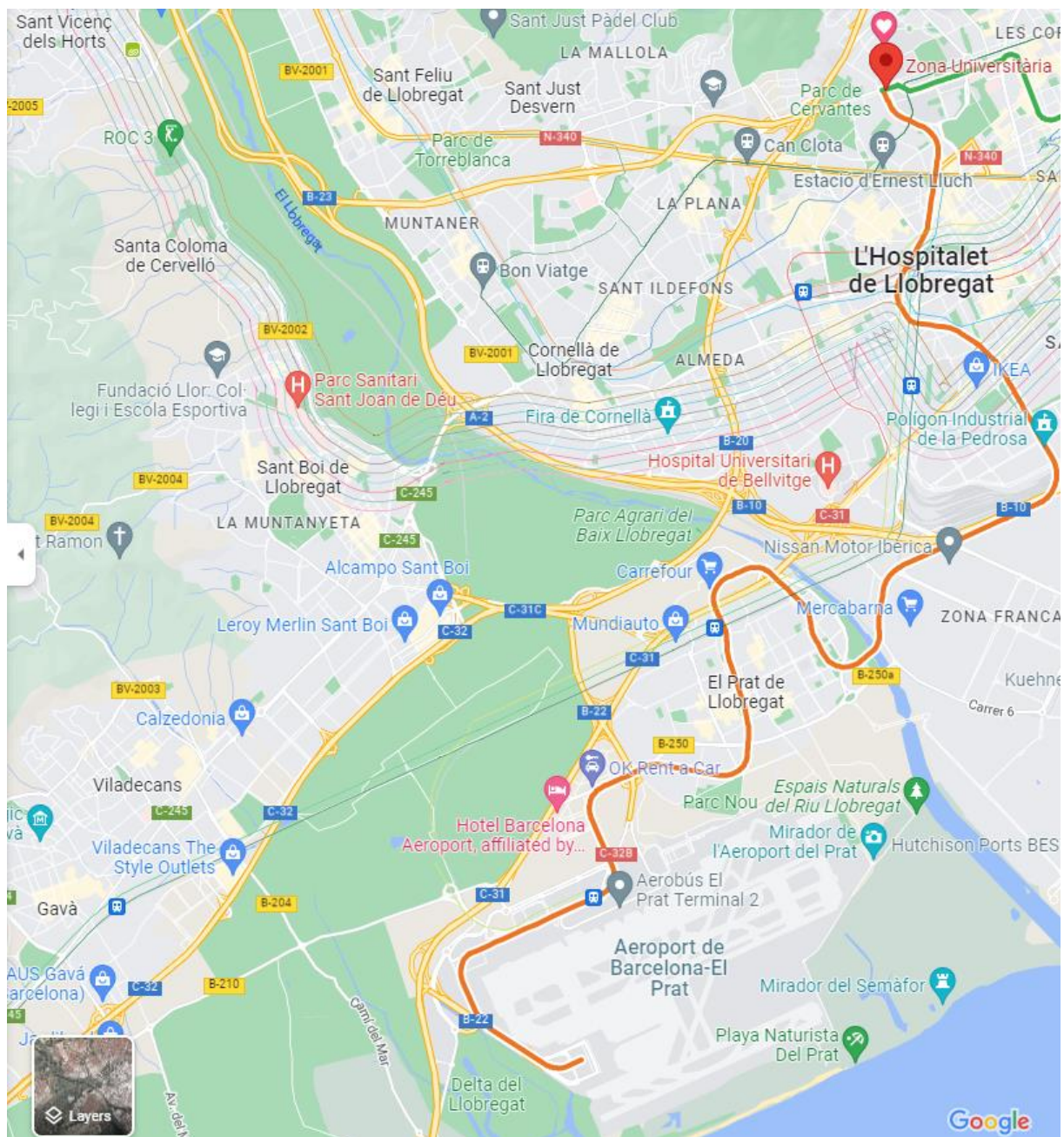
Jordi Girona 1–3, 08034, Barcelona





Transportation:

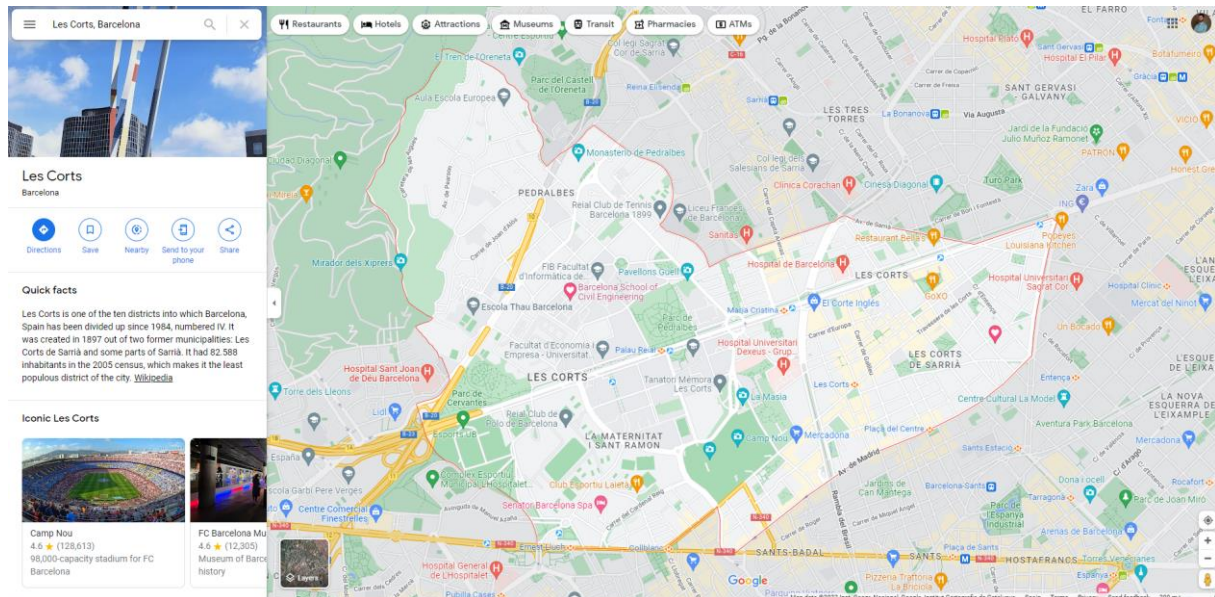
Arriving at the Josep Tarradellas airport, the metro line L9 that stops at both terminals T1 and T2 has its final stop “Zona Universitaria” only a few hundred meters from the Campus Nord.





Accommodation:

The Les Corts district of Barcelona, which includes UPC, has a large number of hotels, both boutique and hotel chains such as NH hotels.



Landmarks:

Barcelona has numerous sightseeing and cultural landmarks such as the Sagrada Família, Parc Güell, Barcelona Cathedral, Casa Milà, Casa Batlló, Palau Güel, Museu Nacional d'Art de Catalunya, Picasso Museum, Fundació Joan Miró, Camp Nou, Montjuïc, and many more.

If you are interested in booking a visit to any of these, or need further recommendations and details, do not hesitate to contact us.

Contact:

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Administrative issues: Raquel Parera Ruiz raquel.parera.ruiz@upc.edu	

Recycl3D kick-off meeting sessions

Session 1: Tuesday, June 7 – 10:30–12:00

Meeting kick-off, introduction of participants and project overview

10:30–10:50	Introduction and project overview (<i>UniSA</i>)
10:50–11:00	Introduction of participants: <i>UniSA</i>
11:00–11:10	Introduction of participants: <i>c⁵Lab</i>
11:10–11:20	Introduction of participants: <i>LNEC</i>
11:20–11:30	Introduction of participants: <i>WPUTS</i>
11:30–11:40	Introduction of participants: <i>BetoTest</i>
11:40–11:50	Introduction of participants: <i>UFRJ</i>
11:50–12:00	Introduction of participants: <i>ASU</i>

Session 2: Tuesday, June 7 - 15:00–17:30

Presentation of Work packages and Tasks (WP and Task leaders)

15:00–16:15 **WP1: CDW collection**

Task 1.1: RA from CDW generated in the EU

Task 1.2: Basic characterization of fRA

- WP Leader vision and organisation: *c⁵Lab* (15 minutes)
- Implementation and deliverables: discussion and round table (*All*)

16:00–17:00 **WP2: Processing, Selection & Classification** (*LNEC*)

Task 2.1: Fundamental characterization of fRA

Task 2.2: Performance-based classification for fRA

Task 2.3: Processing procedure optimization

Task 2.4: Selection of fRA for 3D-RAC

- WP Leader vision and organisation: *LNEC* (15 minutes)
- Implementation and deliverables: discussion and round table (*All*)

Session 3: Wednesday, June 8 - 11:30–13:30

Presentation of Work packages and Tasks (WP and Task leaders)

11:30–12:10 WP3: Early-age behaviour

Task 3.1: Mixture proport. and mixing procedures assessment

Task 3.2: Rheology at the fresh state

Task 3.2: Hydration and pozzolanic activities

Task 3.3: Modelling approach for 3D-RAC in the fresh state

- WP Leader vision and organisation: *c⁵Lab* (15 minutes)
- Implementation and deliverables: discussion and round table (*All*)

12:10–12:50 WP4: Materials characterization (UPC)

Task 4.1: Mechanical properties (UPC)

Task 4.2: Shrinkage and durability indicators (UPC)

Task 4.3: Bond behaviour between printed layers (UniSA)

Task 4.4: Modelling approach for 3D-RAC at hardened state (ASU)

- WP Leader vision and organisation: *UPC* (15 minutes)
- Implementation and deliverables: discussion and round table (*All*)

12:50–13:00 WP5: Structural performances (UniSA)

Task 5.1: Structural analysis of thin and curved 3D-RAC el.

Task 5.2: Time-dependent structural 3D-RAC behaviour

Task 5.3: Reinforcement design for 3D-RAC elements

- WP Leader vision and organisation: *UniSA* (15 minutes)
- Implementation and deliverables: discussion and round table (*All*)

Session 4: Wednesday, June 8 - 14:00–16:00

Discussion of next steps, activities and meetings

14:00–15:00 WP9: Exploitation & Dissemination (UPC)

Task 9.1: Exploitation and Dissemination Plan

- WP Leader vision and organisation: *UPC* (15 minutes)
- Implementation and deliverables: discussion and round table (*All*)

14:00–15:00 Next steps, activities and meetings: discussion (*All*)