

LORCENIS-NOR

Utilize improved concrete with extended lifetime for energy infrastructures and structures in extreme Nordic operating conditions

SINTEF and KVÆRNER work together to disseminate knowledge about improved concrete with extended service life for energy infrastructures and structures in extreme operating conditions achieved through the EU project LORCENIS in Horizon 2020.

In the reinforcement project LORCENIS-NOR funded by the Research Council, the project team organises and implements various events to give more Norwegian players access to knowledge about new functional additives that are mixed into the cement for increased self-protection of concrete and increased durability/prolonged service life. The admixtures result also in improved resistance against ice abrasion and frost damage.

The target groups range from material producers to operators of infrastructures within renewable energy and transport constructions as well as experts from professional environments within concrete who will use new technologies. The following activities were realised since the project start on 1. April 2020:

- Internal kick-off meeting + other project meetings between the collaborating partners to prepare lecture at UiS and workshop with industry.
- User meeting (workshop) for Norwegian players in the industry across from material manufacturers to builders in connection to "[Norsk Betongdagen](#)". [The workshop](#) will be arranged at Clarion Hotel Oslo 30.10.2020. A physical meeting with a limited number of participants is in preparation, but it is considered that the event can be run in parallel or only digitally. Participation is free; however, registration is required.
- Organisation of a learning meeting with lecture for student education at UiS is organized as a 2-part



lecture. Part-1 on "Advanced admixtures" was held on 14.09.2020 digitally with 35 students that gave good feedback after ended lecture. Part-2 is about "Durability of advanced concrete under extreme conditions" and will be held on 26.10.2020.

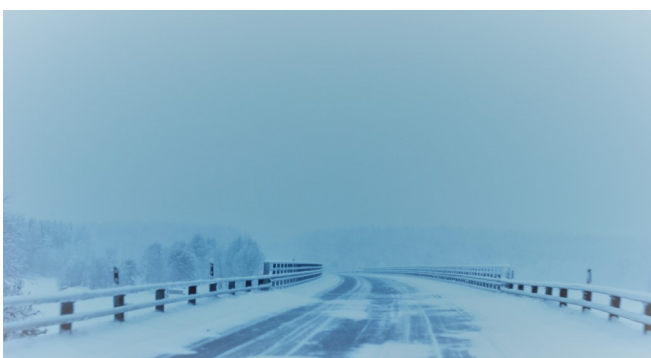
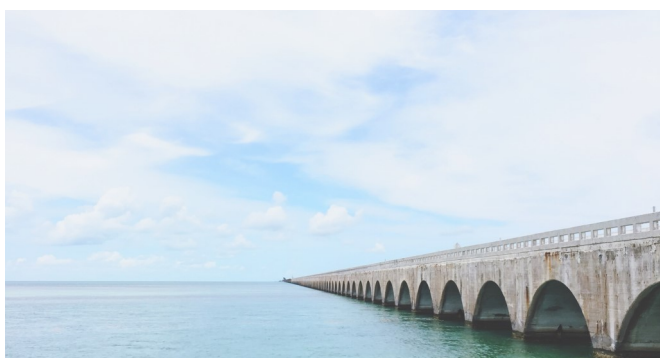
- Preparation of professional meetings with industry associated in the business sector are in preparation. The first meeting will be organised on 17.11.2020 as a webinar solution hosted by the [Norwegian Concrete Association](#).
- Practical laboratory demonstration at NTNU is planned for the winter semester 2020/2021.

Operation of the national contact network is supported through a digital arena and social media as information channels. Project information with news can be found on the [project's website](#) and via [SINTEF](#).

SINTEF consolidates and expands the national customer network as a platform to be able, together with selected Norwegian businesses, to develop environmentally friendly and sustainable products for future scenarios for concrete structures in both the energy and transport sectors adapted to extreme Nordic operating conditions. KVÆRNER supports the national value-creating network towards new applications within concrete structures in extreme

operating conditions where material properties with excellent high quality will be required.

Together with actors from Norwegian industry, an evaluation and strategy meeting (planned for Q1/2021) will set up a roadmap for future project design to promote more sustainable concrete projects within energy infrastructure and transport sector in the Nordic climate where the improved concrete technology will be utilised, further developed and implemented.



A collaborative project with [Kværner](#) funded by [The Research Council of Norway](#)



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