

**SeaCon project**  
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# Short overview

Concrete plays a remarkable socio-economic role in the world. More than 18B tons of concrete are nowadays produced every year, requiring large amounts of natural resources.

## Water

Approximately 1.5 trillion liters of **freshwater** are used annually in concrete production for mixing, curing and equipment cleaning.



## Aggregates



**Can we save natural resources?**



# Projected innovations and outcomes



seawater



RCA

+



FRPs



stainless steels



Chlorides in seawater cause de-passivation of the steel and consequent corrosion phenomena.

# Projected innovations and outcomes



seawater



RCA

+



FRPs



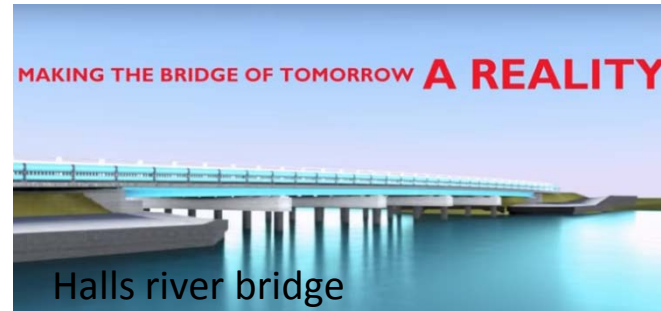
stainless steels

Long-term experimental tests

2 field demonstration projects  
(USA and Italy)



+



+

LCA  
LCC



# Suggested implementation

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Concrete itself could become a more sustainable material, allowing:

- the use of seawater for mixing and curing
- the use of salt-contaminated recycled concrete aggregates (RCA)
- the use of cements without chloride restriction (e.g. use solid waste as kiln fuel as well as adding kiln dust back to the clinker)
- Novel cements
- ...

Technology will be demonstrate by means of two real-size field prototypes in two countries (Italy and Florida, USA)

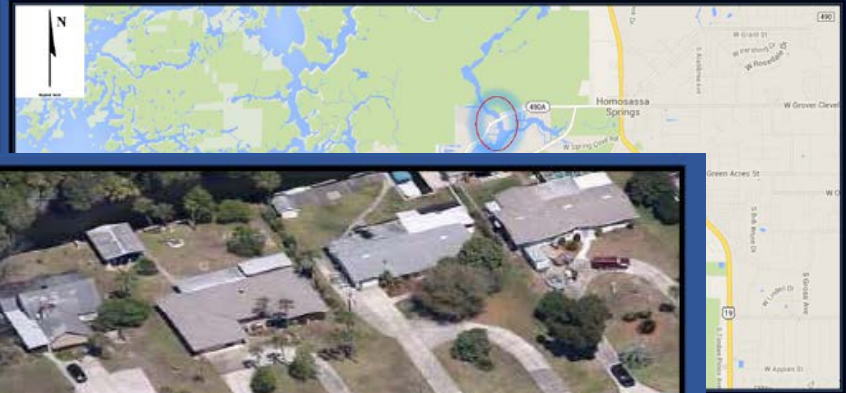




# Suggested implementation (2)



## Project Overview



BRIDGE LOCATION



# Contact

[www.infravation.net](http://www.infravation.net)

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