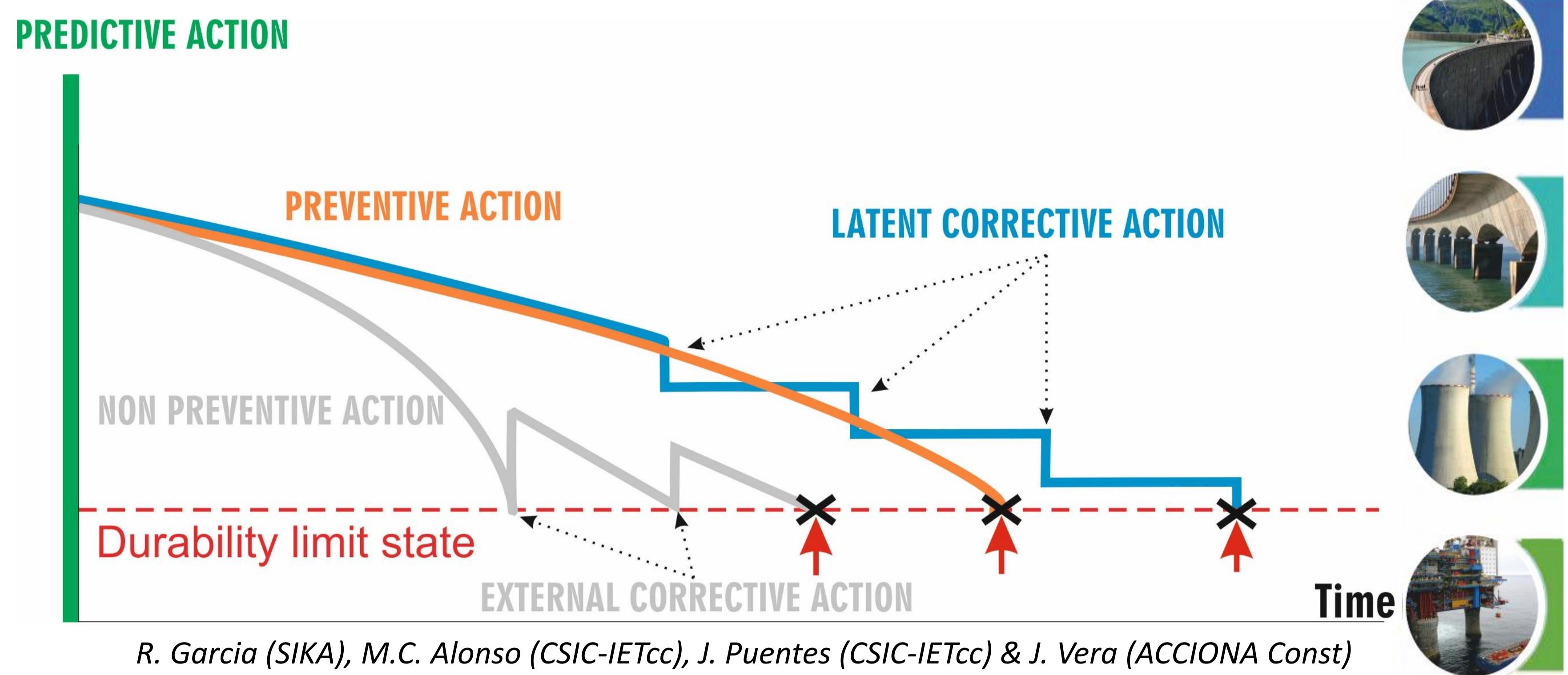


# International construction innovation networking event

## Predictive Preventive Corrective Constructions



Madrid - 19<sup>th</sup> March



### Thinking in future sustainable constructions

New concrete technologies and products based on "self-responsive capacity" are quickly advancing. The framework for their practical implementation needs dissemination of experiences. Guide principles to value them in the market are claimed for accurate life cycles analysis. This networking event address the opportunities for the emerging self-responsive concrete challenges, with open discussions between the different stake-holders involved in the construction R+D&I.

### NON-active Maintenance durability strategy for long lasting service life

Sustainability and Durability in construction are challenges that need to advance together for long lasting concrete structures.

Actual solutions imply costly maintenance activities along the Service Life of the structure. Durability actions based on a "**NON-active Maintenance**" (towards a cero-maintenance) are the strategies coming for the future.

The Integration of self-responsive actions in the concrete with **PREDICTIVE – PREVENTIVE – CORRECTIVE** capabilities, will be the approach for long lasting constructions. This will allow to reach the balance within life cycle sustainability assessment (LCSA) to reach the expectations of EU Policy for materials and products.

Registration		
9:00 – 9:15	LORCENIS Challenges	C. Simon, M. Pilz (Norway) SINTEF
9:15 – 9:30	Frame for NON-active maintenance actions	CSIC-IETcc / SIKA / ACCIONA
9:30 – 9:45	Sustainability, standards & targets	I. Jarauta (Spain) ANFAH
Market analysis		
9:45 – 10:15	Durability prescriptions & profitability Experience in offshore construction	E. J. Ayala (Spain) ACCIONA K.T. Fosså, K. Haldorsen (Norway) KVAERNER
Panel analyses of PREDICTIVE actions		
10:15 – 1:00	Health monitoring of structures Expectances with site monitoring New materials for self-diagnosis	M. C. Alonso (Spain) CSIC-IETcc E. Camacho (Spain) RDC A. Korzhenko (Spain) Arkema
11:00 – 11:30	Coffee break	
Panel analyses of PREVENTIVE actions		
11:30 – 2:15	Active contributing technologies Expectances from self-curing systems Expectances from self-protection systems	R. Garcia (Spain) SIKA M. Francini (Italy) BUZZI UNICEM F. Maia (Portugal) SMALLMATEK
Panel analyses of Latent CORRECTIVE actions		
12:15 – 13:00	Crack sealing technologies Practice needs of crack sealing Expectances from self-healing systems	K. Van Tittelboom (Belgium) UGent U. Mueller (Sweden) RISE-CBI J. Vera (Spain) ACCIONAConst
13:00 – 13:15	Actual needs & future expectances from new NON-active Maintenance technologies M. Arana (Spain) Fomento Ministry, harbors affair	
13:15 – 13:45	Sustainability & EU policy in RTDI calls L. Iñigo (Spain) CDTI (NMBP Nat. contact)	
13:45 – 14:00	Final analyses and conclusions SIKA/CSIC-IETcc / ACCIONA	
Lunch/networking event		



Local Organisers:  
CSIC-IETcc-ACCIONA Construcción-SIKA Spain

Event location: **Institute of Construction Science Eduardo Torroja**  
C/ Serrano Galvache, 4 Madrid. 28033 (Spain) (+34) 91 302 04 40



No-fees

Registration required: [PPCC-2019@ietcc.csic.es](mailto:PPCC-2019@ietcc.csic.es)

# Jornada internacional de innovación en la construcción

## Predictive Preventive Corrective Constructions



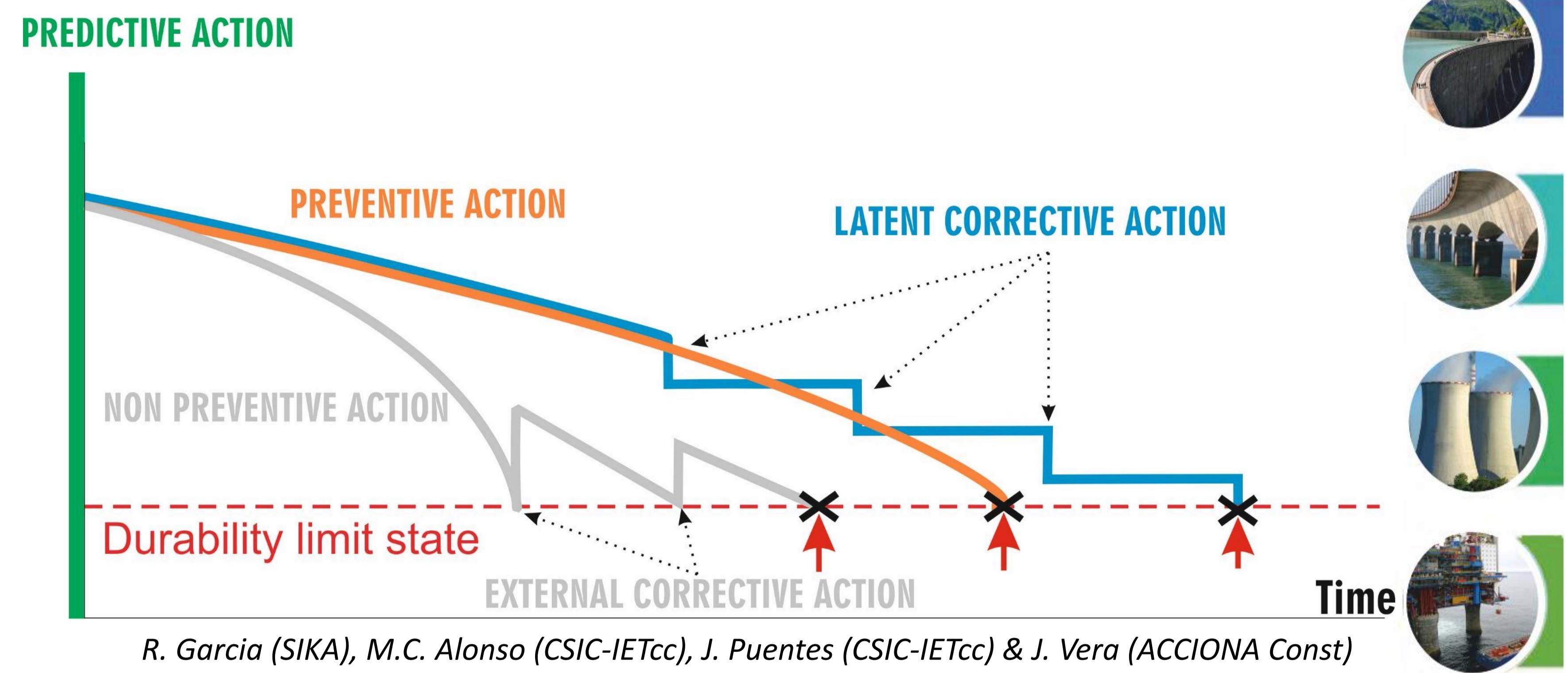
Madrid - 19<sup>th</sup> March

### La sostenibilidad de las construcciones del futuro

Los avances basados en la "capacidad de auto-respuesta" del hormigón están evolucionando rápidamente. El marco para su implementación requiere una difusión adecuada de la experiencia. Se precisan criterios acordes a la estimación del ciclo de vida para valorizarlos hacia el mercado. Esta jornada internacional busca analizar oportunidades para estos avances, a través de un foro de discusión distribuido en varias acciones entre los distintos entes involucrados en el I+D+i de la construcción.

### Estrategia de durabilidad de Mantenimiento NO-activo para largas vidas útiles

La sostenibilidad y la durabilidad en la construcción son desafíos que deben avanzar juntos para lograr estructuras de larga duración. Las soluciones actuales implican costosas actividades de mantenimiento para extender la vida de las estructuras. Las nuevas estrategias de durabilidad plantean como reto incorporar a las estructuras acciones basadas en un "Mantenimiento NO-activo" (hacia cero-mantenimiento). La integración en el hormigón de acciones de "auto-respuesta" es el camino hacia construcciones duraderas con capacidades PREDICTIVAS - PREVENTIVAS - CORRECTIVAS, permitiendo satisfacer las expectativas de sostenibilidad propuestas en la política de la UE para la evaluación del ciclo de vida (LSCA).



R. Garcia (SIKA), M.C. Alonso (CSIC-IETcc), J. Puentes (CSIC-IETcc) & J. Vera (ACCIONA Const)

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Lugar de la jornada:

Instituto de Ciencias de la Construction Eduardo Torroja

C/ Serrano Galvache, 4 Madrid. 28033 (Spain) (+34) 91 302 04 40



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inscripción: PPCC-2019@ietcc.csic.es

Organización:

CSIC-IETcc, ACCIONA Construcción, SIKA Spain



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SUSTAINABLE CHEMISTRY