

The MARI-Sense Project: Employing Artificial Neural Networks for Sustainable Coastal Environmental Management

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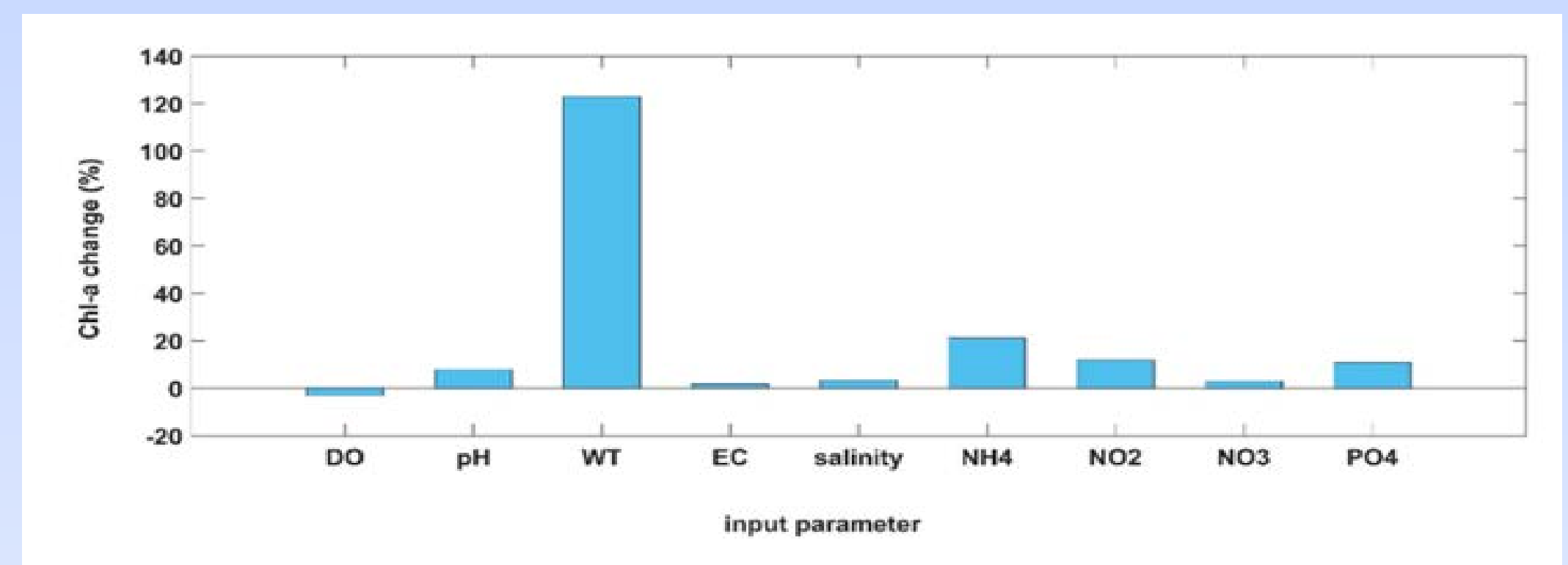
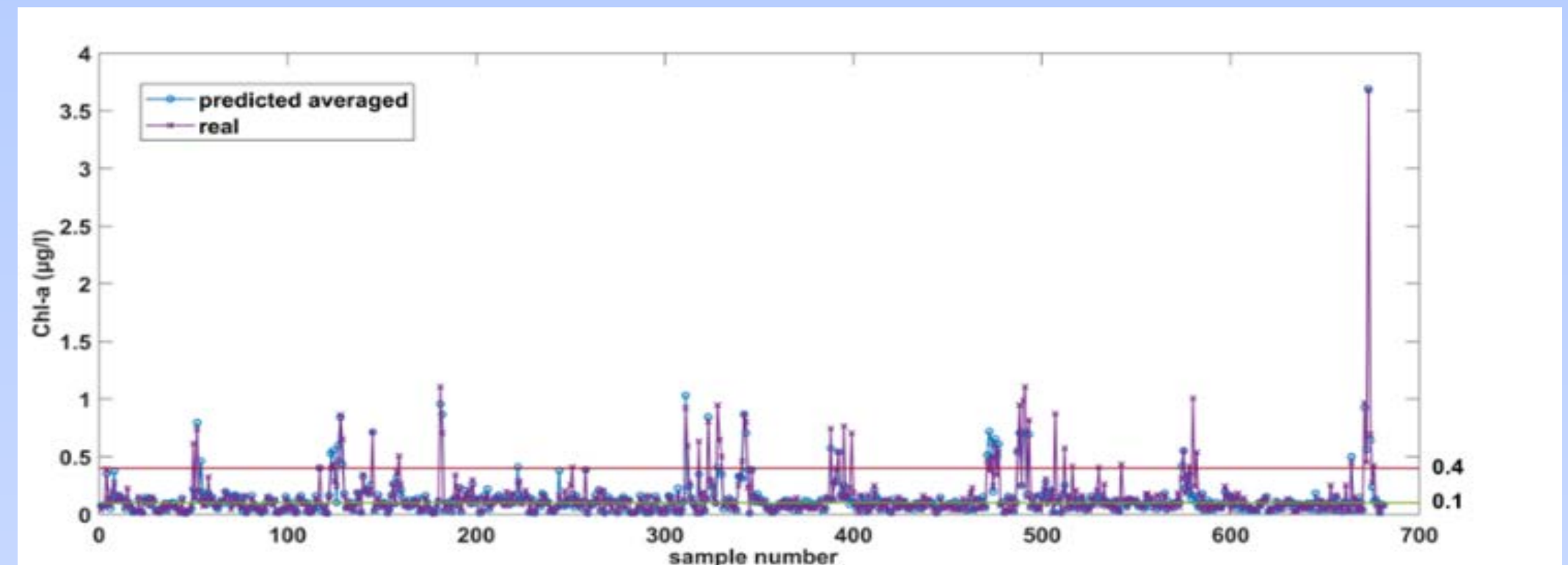
Introduction

The MARI-Sense project develops intelligent systems that allow human operators to make sense of the complex maritime environment for applications including transport and shipping, coastal tourism, search and rescue, and maritime spatial planning. MARI-Sense is a strategic project for smart, sustainable, and inclusive growth with a beneficial impact on society, technology, and the economy, powered by the diverse capabilities of members of the quadruple helix and the general public.

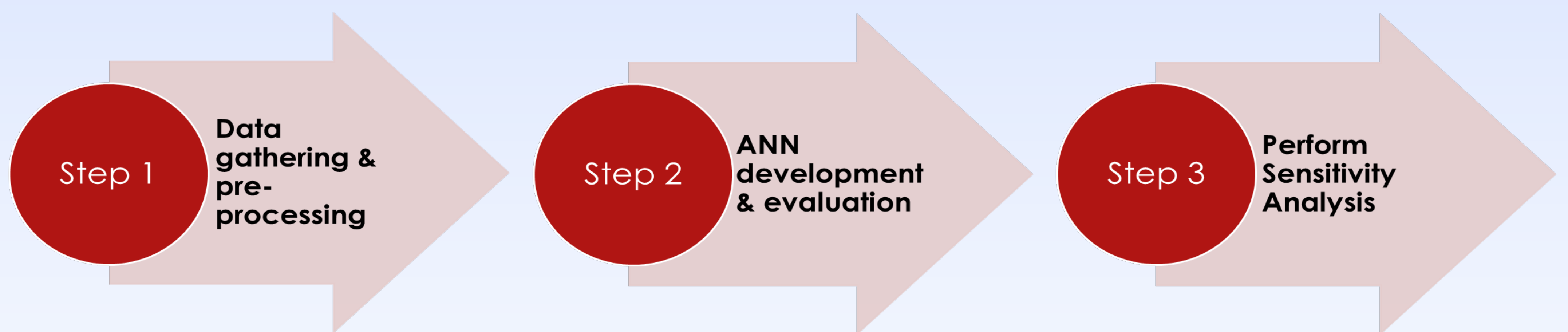
Results

Real vs predicted

(data taken from Hadjisolomou et al., 39th IAHR World Congress, June 2022, Granada, Spain)



Methodology



Conclusions

- Data-driven methods accurately model environmental processes.
- Machine Learning can be used in environmental sustainability studies.
- User-friendly data-driven tools can provide decision support.

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