

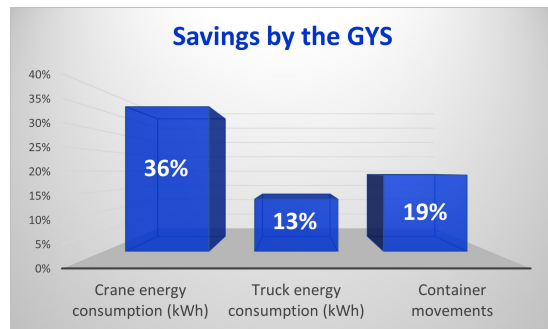
4. Technology readiness

The GYS has been developed in the EU project PortForward up to TRL 7 for the Port of Vigo in a flexible and scalable manner so it can be used by other ports.



5. Results

Performance evaluation of the GYS at the Port of Vigo shows its great potential to save energy and improve operational performance.



6. Impact acceleration

Funded by the EPSRC and in partnership with the Connected Places Catapult, the **ProGYS Project** aims to promote the reach and impact of the GYS by piloting it in other ports. Scan the QR code below to find out more about the ProGYS project.



7. Contact

Terminal operators, solution developers and other stakeholders of container ports are welcome to get in touch for further details, arrange demonstrations and discuss alternative pathways to exploitation.



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Green Yard Scheduler (GYS)

*Towards a Greener, Smarter, and More Competitive
Container Terminal*



An innovative solution to enhance the
sustainability and productivity of
container terminals

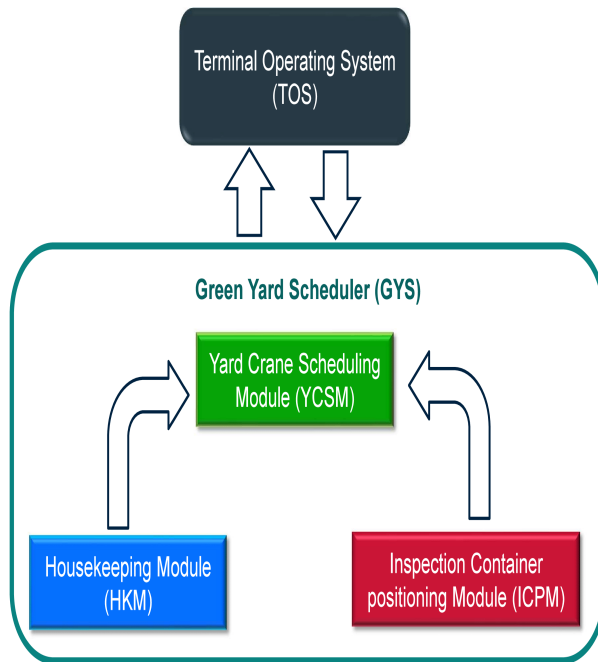
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1. What is the GYS?

The Green Yard Scheduler (GYS) is an innovative solution for container terminals to promote their sustainability and productivity and support their transition to Net Zero. It has been developed in the EU-funded project PortForward for the Port of Vigo in a flexible and scalable manner so it can be used by other ports.



2. What does it do?

The GYS pulls real-time data from the Terminal Operating System (TOS) and provides solutions to terminal operators. It includes three modules for housekeeping, inspection container positioning, and yard crane scheduling.

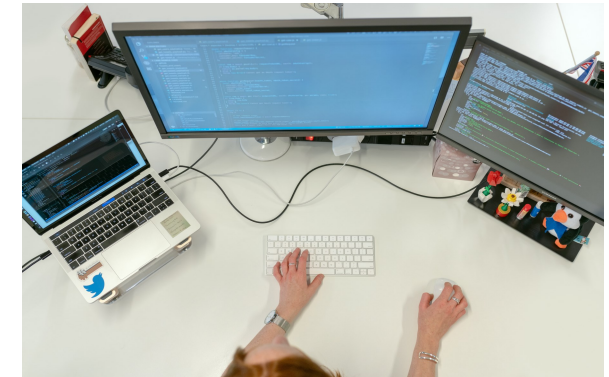
3. Value propositions

Target customers of the GYS include (i) operators of container terminals, and (ii) software solution providers for container ports.

3.1 For terminal operators

Working as an add-on alongside TOS, the GYS creates real value for the operators of container terminals by

- Saving 5 kWh (eq. 1 EUR) per TEU.
- Reducing 10%-15% GHG emissions.
- Decreasing non-productive container movements by 20%.
- Increasing profit by 5%-10%.
- Minimizing the need for complex, ad-hoc, and stressful decision-making by the planners, thereby better working conditions for the human resources.



3.2. For solution providers

For the software companies that provide solutions for container terminals, such as Terminal Operating System (TOS), the GYS generates value by

- Upgrading their software systems and embedding innovative and value-adding features in their solutions.
- Exploiting the scientific results of an EU-funded project for the rapid release of new versions to the market.
- Promoting their brand image as a solution provider who supports green movement towards net zero.

