



Capacity with a pOsitive enviRonmEntal and societAL footprint: portS in the future era



D.2.4. Cloud-based Marketplace

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Executive Summary

The Marketplace is one of the enablers to build a community of businesses within a port. Owned and offered by the Port itself, the platform provides reliable tools for sharing equipment and to support circular economy behaviour. The platform aims to exchange information on available, often idle, resources enriched with integration with local operating systems can provide substantial benefits for terminals but also whole port's ecosystem i.e. saving costs on unnecessary investments or demurrage costs.

The architecture of the Customized Marketplace is based on the Lavarel programming environment, and allows users to share information on their assets, book, rent and track their equipment and better manage their yards. All this results in quicker passage of containers but also bulk cargo. The platform provides file-based integration with Terminal Operating Systems of individual terminals that can automatize processes of booking necessary equipment. The marketplace can also track and trace assets equipped with GPS beacons. An intuitive dashboard presents data on rented and booked assets together with business and emissions savings.

Port of Antwerp is one of the largest ports in Europe with the area consisting of numerous terminals doing their business in variety of sectors. This brings a lot of potential towards optimisation that is one of the key challenges for the Port Authority as well as the COREALIS project.

