



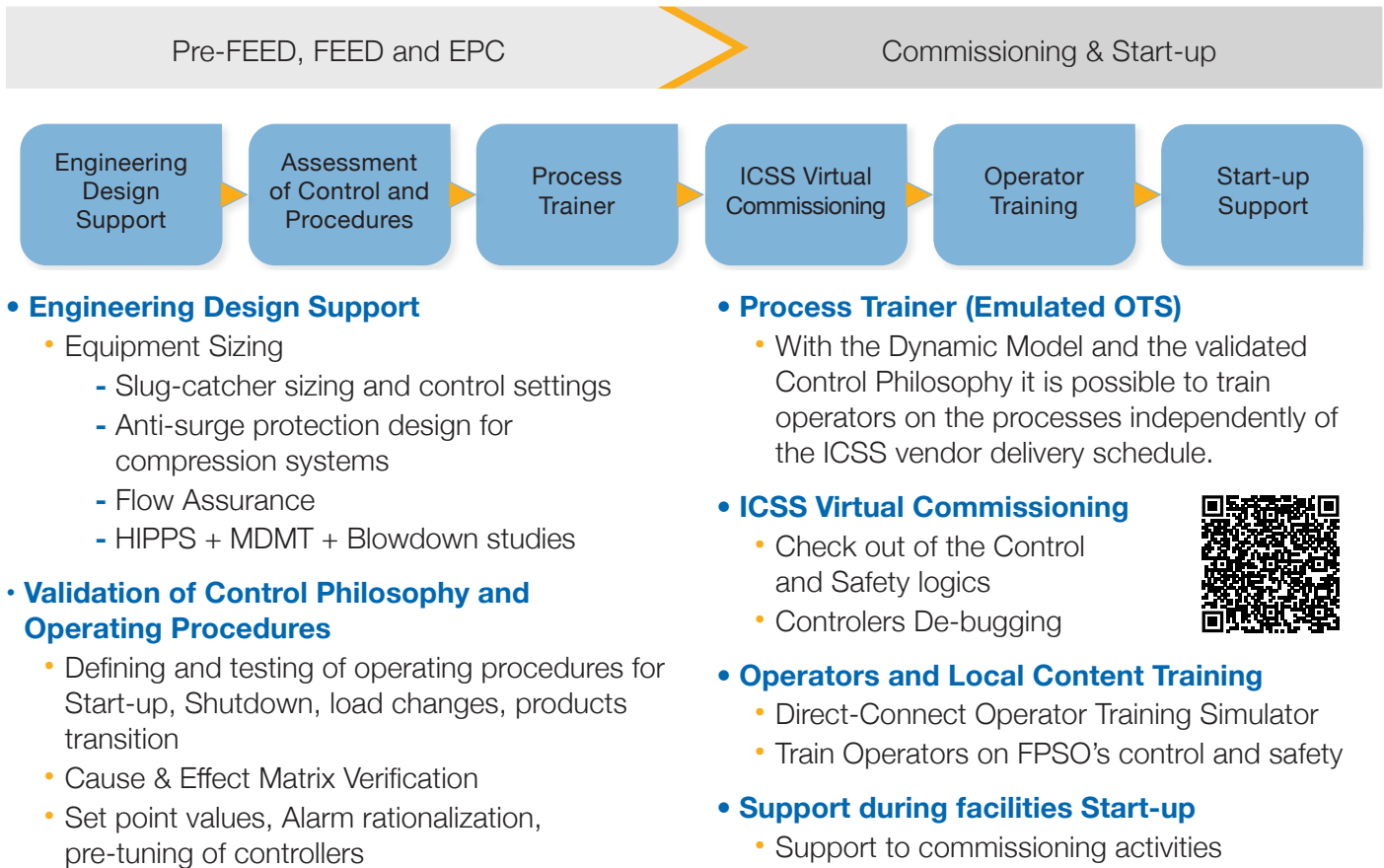
simulation
knowledge
profit

Successful FPSO Process Digitalization

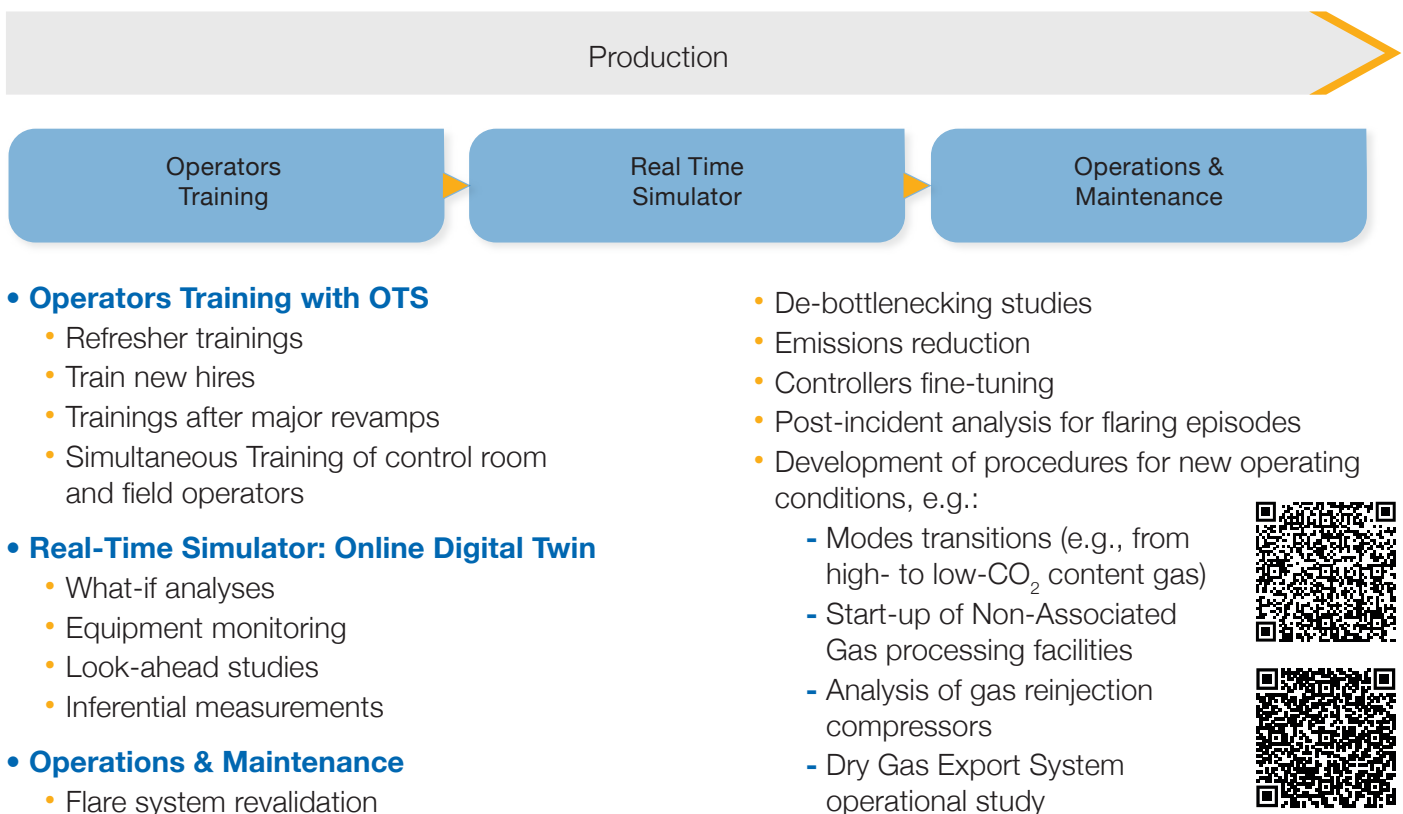
FPSO constructors and operators are increasingly adopting **digitalization** to support **data-driven decision-making**, while also focusing on sustainability through **energy consumption management** and **GHG emissions reduction**.

At Inprocess, we have the expertise, capabilities, and passion to support FPSO players on this digitalization journey by applying process simulation in the below lifecycle phases.

Inprocess Digitalization Applications for FPSO Greenfield Projects



Inprocess Digitalization Applications for FPSO Brownfield Projects



Digitalization Benefits of Inprocess' dynamic process simulation application

With Inprocess' simulation-based digitalization applications during (pre-)FEED, Commissioning, and Operations, our customers can improve and fasten decision-making processes across the whole FPSO's lifecycle.

• Development Phase

- Ensure safe-by-design processes through realistic engineering studies
- Reduce capital costs (CAPEX) by accurate design of the equipment
- Minimize commissioning time by having virtually checked out the ICSS
- Train Operators on time, before first oil

• Production Phase

- Reach Operational Efficiency utilizing optimized operating procedures
- Infer process values by simulation for non-instrumented variables
- Detect deviations of equipment performance
- Decision support with real time information obtained from process simulation

Additional benefits by combining digitalization applications to Multi-Purpose Dynamic Simulator (MPDS)

A Multi-purpose Dynamic Simulator (MPDS) aims to optimize the utilization and the benefits of dynamic process models across all the applications described above.

It serves as a valuable tool from initial stages in design and development of Greenfield projects up to operational and maintenance stages of both Greenfield and Brownfield projects.

Key benefits of MPDS include de-risking projects, virtual ICSS commissioning, availability of offline and online process Digital Twins (Real Time Simulators), among many others.



Global Inprocess Presence with successfully delivered FPSO Projects

