inprocess

simulation
knowledge
profit

# Early **OTS**

## Train operators earlier. Be independent of DCS database delivery

### Benefits

- Accomplish training plan
- Use tested operational procedures for plant start-up
- Check HMI ergonomics before DCS FAT/SAT

### Functionalities

- Detect operational limits of the system
- Familiarize operators with the processes in the plant-to-be
- Have operators get used to the designed Human Machine Interface
- Involve experienced operations personnel to test and enhance initially proposed operational procedures, already with timing and transitions conditions

| **DSS** Dynamic Simulation Studies | **Early OTS** | **DCS** check out | **OTS** Operator Training Simulator | **Startup support** | **O&M** Operations & Maintenance support |
|---|---|---|---|---|---|
| Basic Engineering (FEED) and Detailed Engineering (EPC) | | | | Commissioning & Startup | Operations & Maintenance |

# Early **OTS**

**inprocess**

**Disengage operators training from ICSS database availability**


Senior Control Room Operators Early training


HMI checking before commissioning

## Workflow Early OTS

Validated Dynamic Model

Control Narrative →

Dynamic Model with Control

Main Interlocks →

Dynamic Model with Control & Safety

Training Scenarios →

Dynamic Model with Control, Safety & Scenarios

Main Human Machine Interfaces →

Optional Instructor Station →
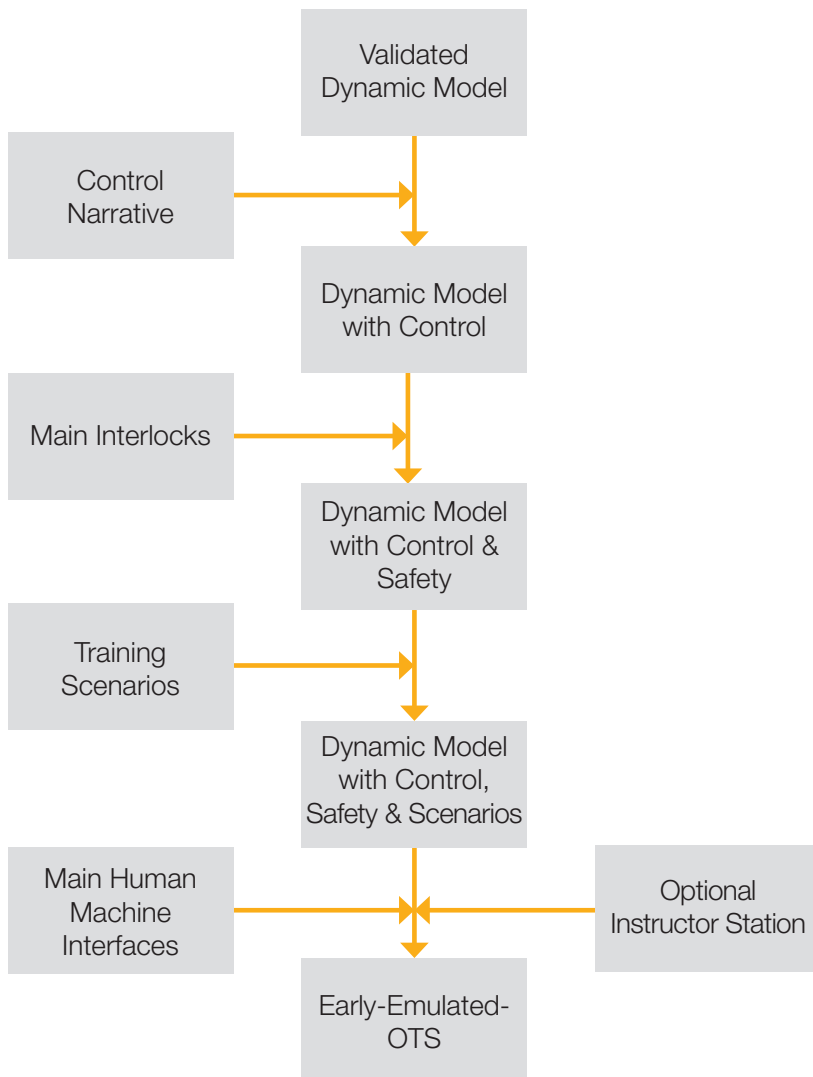
Early-Emulated-OTS

## Follow-up projects
- Emulated OTS
- Direct-Connect OTS
- Engineering Model

## Case studies

Scan this code to see our latest case studies list