TO ERR IS HUMAN, TO IMPROVE IS NAPCON.

Pekka Qvist, Educational Games Manager, NAPCON Games / Neste

NAPCON

NAPCON TRAIN

ALL WORK, ALL PLAY.

NAPCON Simulator
NAPCON Games

OUR INDUSTRIAL END-USERS

Biopharma

Food Industry

Biochemicals

Biofuels and Additives

Oil Refining

Petrochemicals

Gas
Natural Gas – **Biogas** - LNG

Industrial Infrastructure

NAPCON

2018 GLOBAL 100

Neste was chosen as the
3rd most sustainable
company
in the world
In 2018

neste

Neste's renewable fuels produced in 2017 reduced carbon emissions

8.3
million tons

Equaling
permanent removal of
3 million passenger cars
from the roads

NESTE

From low quality raw materials to high quality products

We are the world's number

1

renewable diesel provider

The share of waste and residues is almost
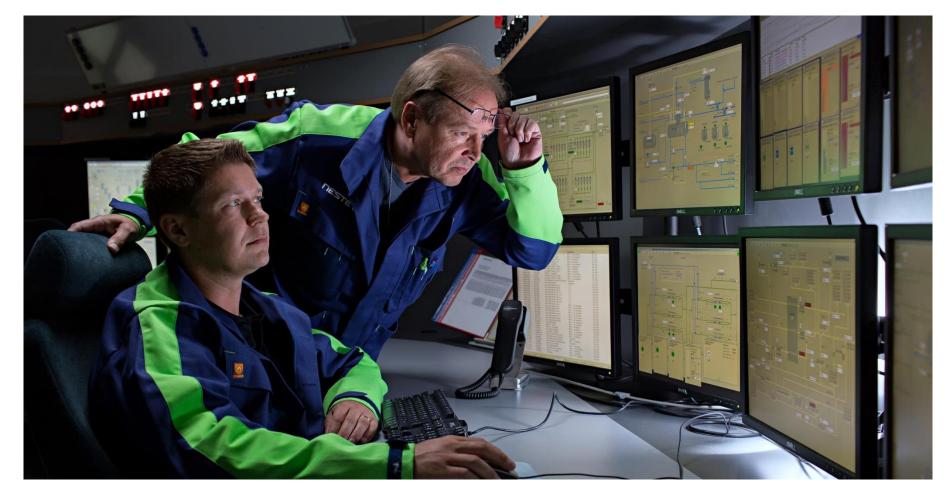
80%

of our renewable raw materials

Neste MY Renewable Diesel reduced GHG emissions by the amount equaling annual emissions of
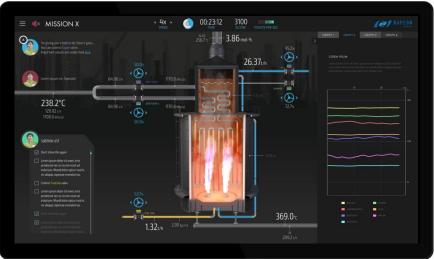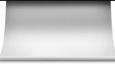
3

million passenger cars

Neste

NAPCON GAMES – EDUCATIONAL GAMES FOR PROCESS INDUSTRY

More profitable plant operation

NAPCON online machine learning applications
optimal operation, improved safety, energy efficiency,
understanding hidden phenomena

Deep **knowledge on oil refinery processes,** process control and operation

Solid hands-on experience on developing and implementing **online** applications

Field-proven, **OPC UA certified** NAPCON calculation and data-integration tools

State-of-the-art **machine learning** technology

Process Data
Understanding the semantics and significance of data

NAPCON

TRADITIONAL WAY OF TRAINING

Classroom training	Gap in the training methods	Unit Training Simulator

LOW LEARNING RETENTION RATE

Gap in the training methods leads low learning retention rate. Theoretical knowledge is not instantly put into practice, and parts of trained content will not remain memorized.

APPLYING THEORETICAL KNOWLEDGE IN PRACTICE CAN BE DIFFICULT

Going directly from classroom training to a full fledged, complete and complicated Unit Training Simulator provides an extremely steep learning curve. Classroom training does not support learning-by-doing, and does not provide the tools to test theory in practice.

NON-SCALABLE WAY TO DISTRIBUTE TRAINING

Classrooms and Unit Training Simulators are dependent on several time, space and personnel constraints. Availability of training spaces, trainers and groups of trainees or individual trainees dictate how training has to be organized, leading to unoptimizde training schedules and methods.

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OPERATOR LEARNING PATH WITH NAPCON TRAINING SOLUTIONS

Theoretical Background	Basic Principles	Basic Controls	Safe and Economical Operating in Fault situations	Fast and systematic reacting to unexpected process faults	Unit Specific Training	Ready to Operate

Theory & Exams: NAPCON Learning Platform

Generic and Customized Learning Games: NAPCON Games

Unit Training Simulator: NAPCON Simulator

Organization-Wide Competence Development Assessment & Tracking: NAPCON Training Solutions

NAPCON

OPERATOR LEARNING PATH WITH NAPCON AI ADVISOR

Theoretical Background	Basic Principles	Basic Controls	Safe and Economical Operating in Fault situations	Fast and systematic reacting to unexpected process faults	Unit Specific Training	Ready to Operate

Theory & Exams: NAPCON Learning Platform

Generic and Customized Learning Games: NAPCON Games

Unit Training Simulator: NAPCON Simulator

Intelligent Digital Tutor: NAPCON AI Advisor

Digital Co-Worker: NAPCON AI Advisor

Organization-Wide Competence Development Assessment & Tracking: NAPCON Training Solutions

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Thank you!

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