

# Giving digital life to old process factories

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Meelis Viisileht

Mech Eng

CEO, Member of the board

## OUR MISSION

is to offer the best mechanical and industrial engineering solutions for manufacturing and production companies.

# Fields of activity

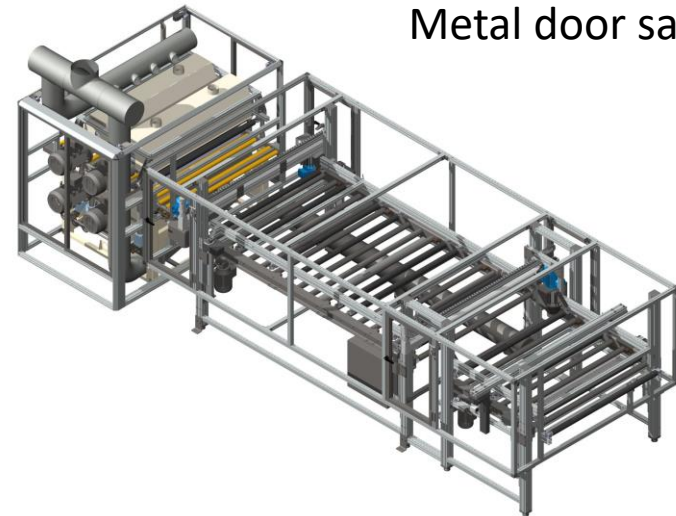
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## Mechanical engineering:

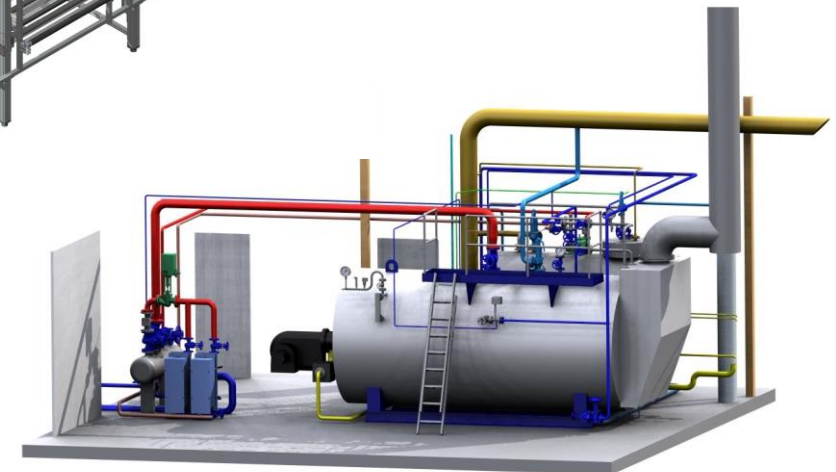
- Production lines
- Production machines
- Production automations
- Prototyping

## Process engineering:

- Process piping
- Process Information Diagrams (P
- Gas installation (incl CNG, LNG, Biogas)
- Gas filling stations
- Plant layouts



Metal door sanding line



Steam boiler house

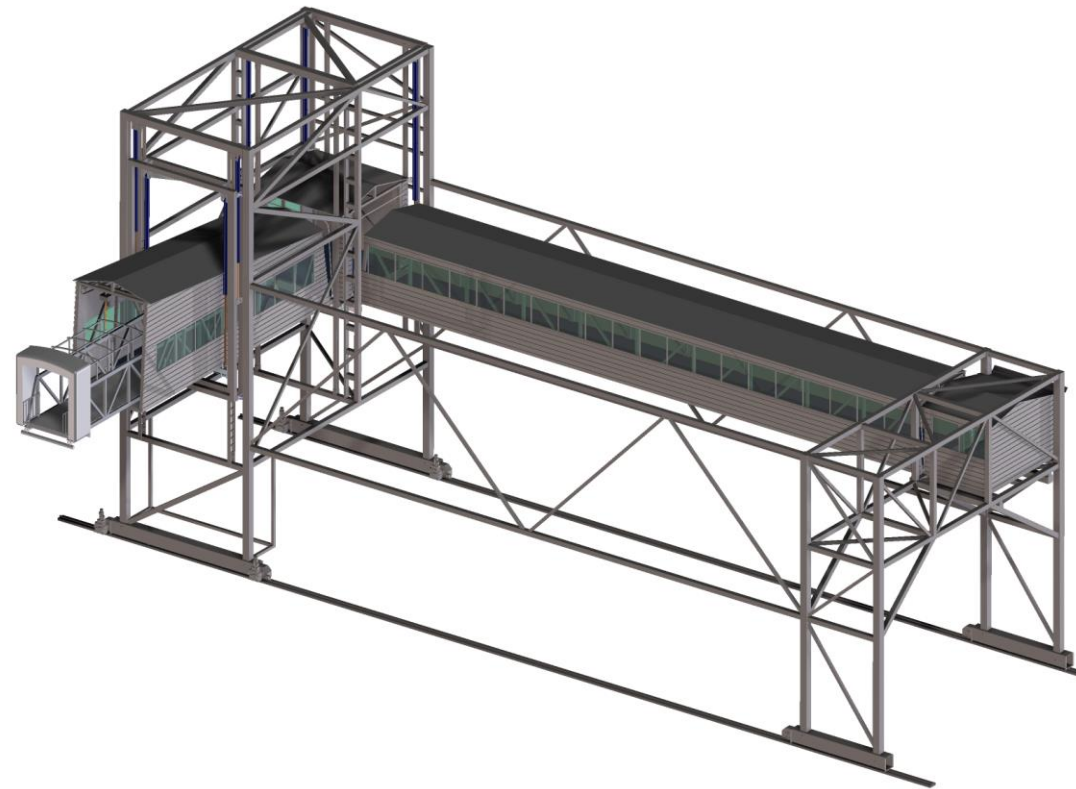
# Industries

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## INDUSTRIES WE OPERATE IN:

- Wood Industry
- Chemical Industry
- Pulp & Paper
- Automotive Industry
- Transport
- Oil & Gas
- Power
- Electronics
- Medical
- etc

Passenger bridge in port of Tallinn

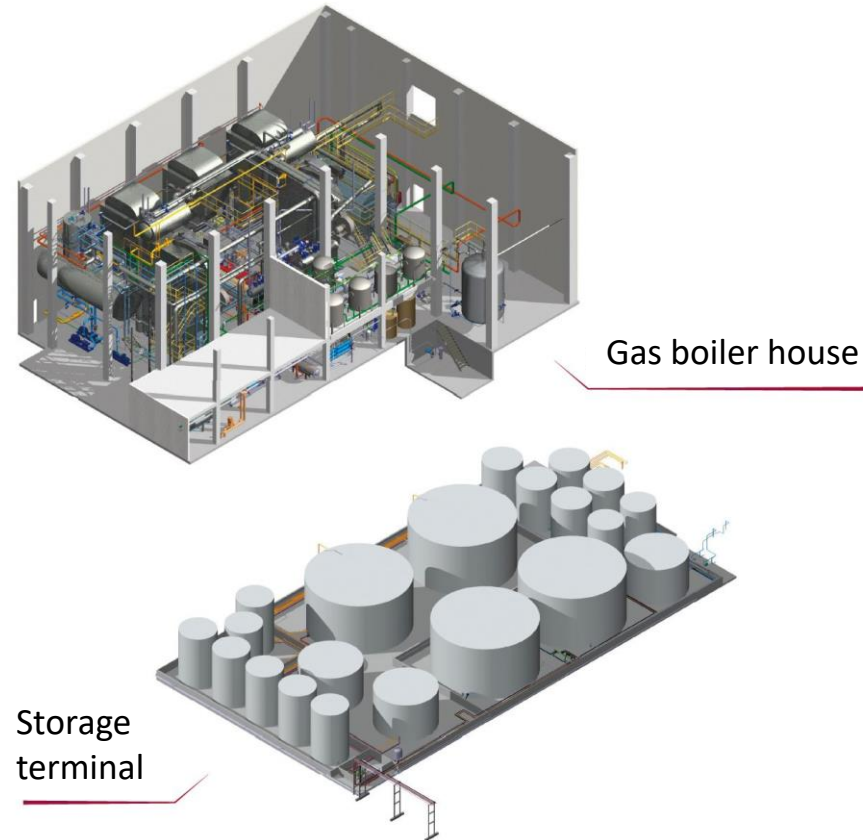


# Services

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## PROCESS PIPING DESIGN AND PROJECT MANAGEMENT:

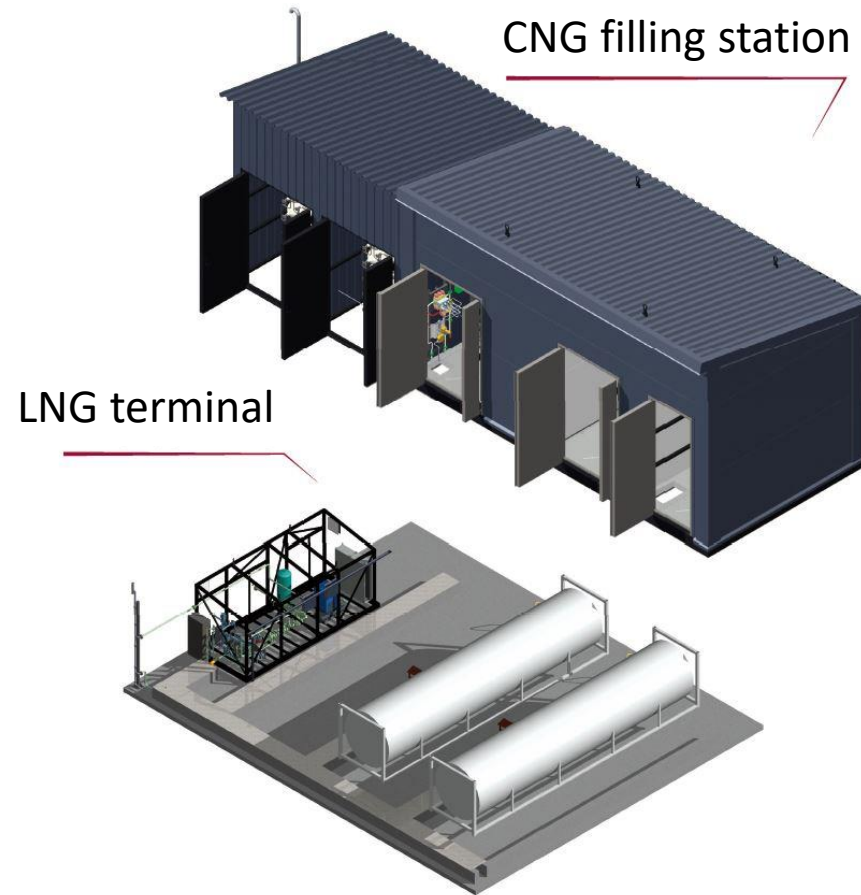
- Design of industrial processes/pipelines
- Design of production processes
- P&ID (piping and instrumentation diagrams)
- 3D modeling from laser-scanned point clouds



# Services

## GAS SYSTEMS DESIGN:

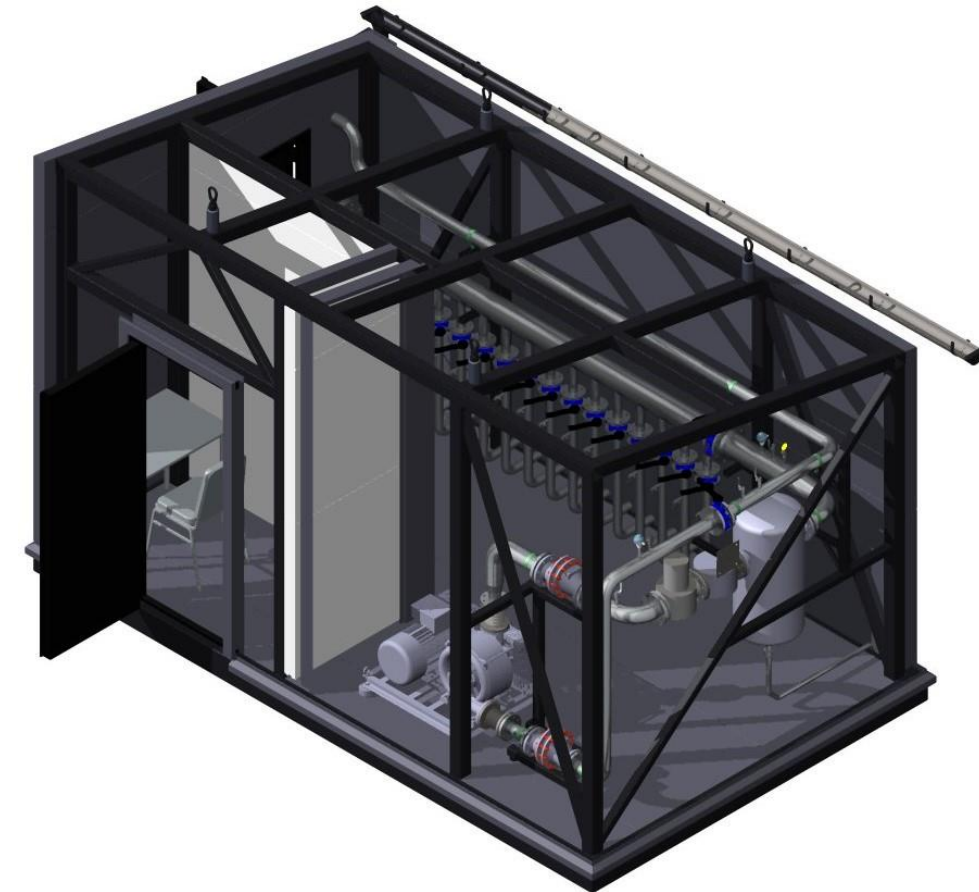
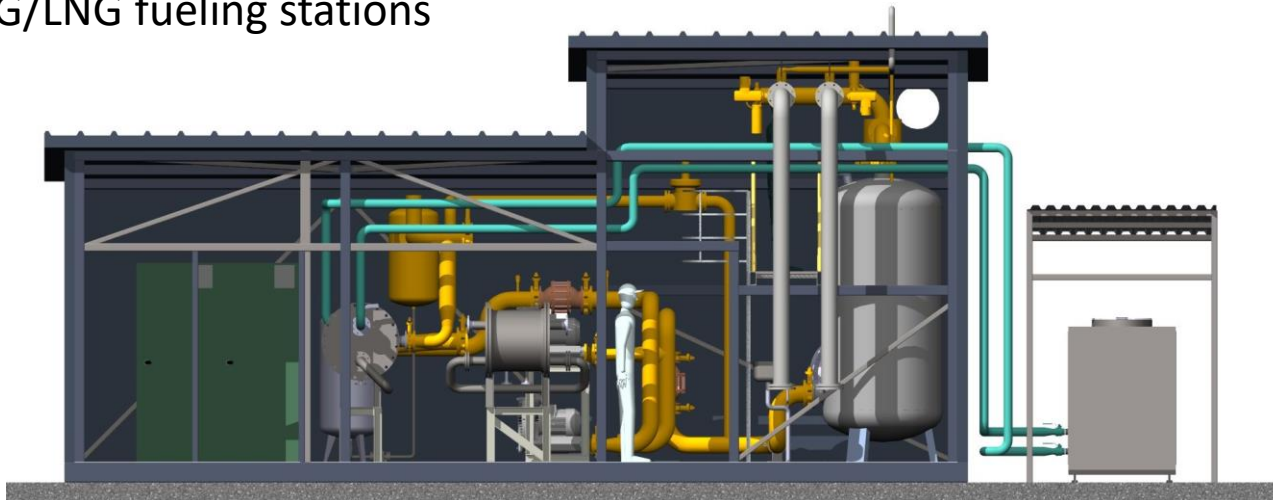
- CNG filling stations
- LNG filling stations, regasification plants, etc.
- Biogas plants/upgraders
- Landfill gas installations
- Gas compressor stations
- Gas boiler houses
- Combined heat and power (CHP) plants
- Other gas installations



## Example projects

### Process piping and gas systems design:

- CHP plants in Finland 2 x 1,56 MW and Estonia 4 MW
- Gas fired steam and water boiler houses
- Thermal oil boiler houses
- Design of polymerization facility in Estonia
- Development of circulation oil cleaning facility in Estonia
- CNG/LNG fueling stations



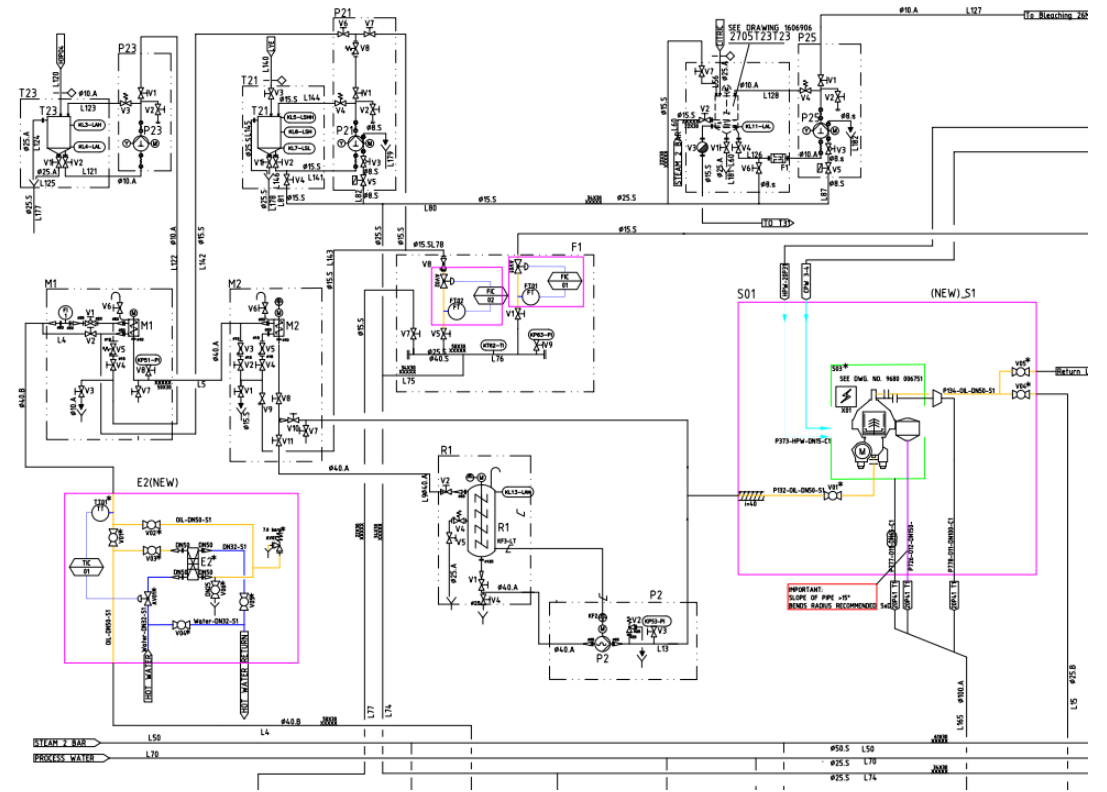
# Process factories

## Challenges:

- Changes made during factories lifetime
- Documentation does not correspond to real life
- Staff changes during factories lifetime
- Difficult to implement changes

## Solutions:

- On basis of photos to make changes to documentation
- Utilize laser scanned point clouds
- On basis of point cloud make PID and CAD model of factory





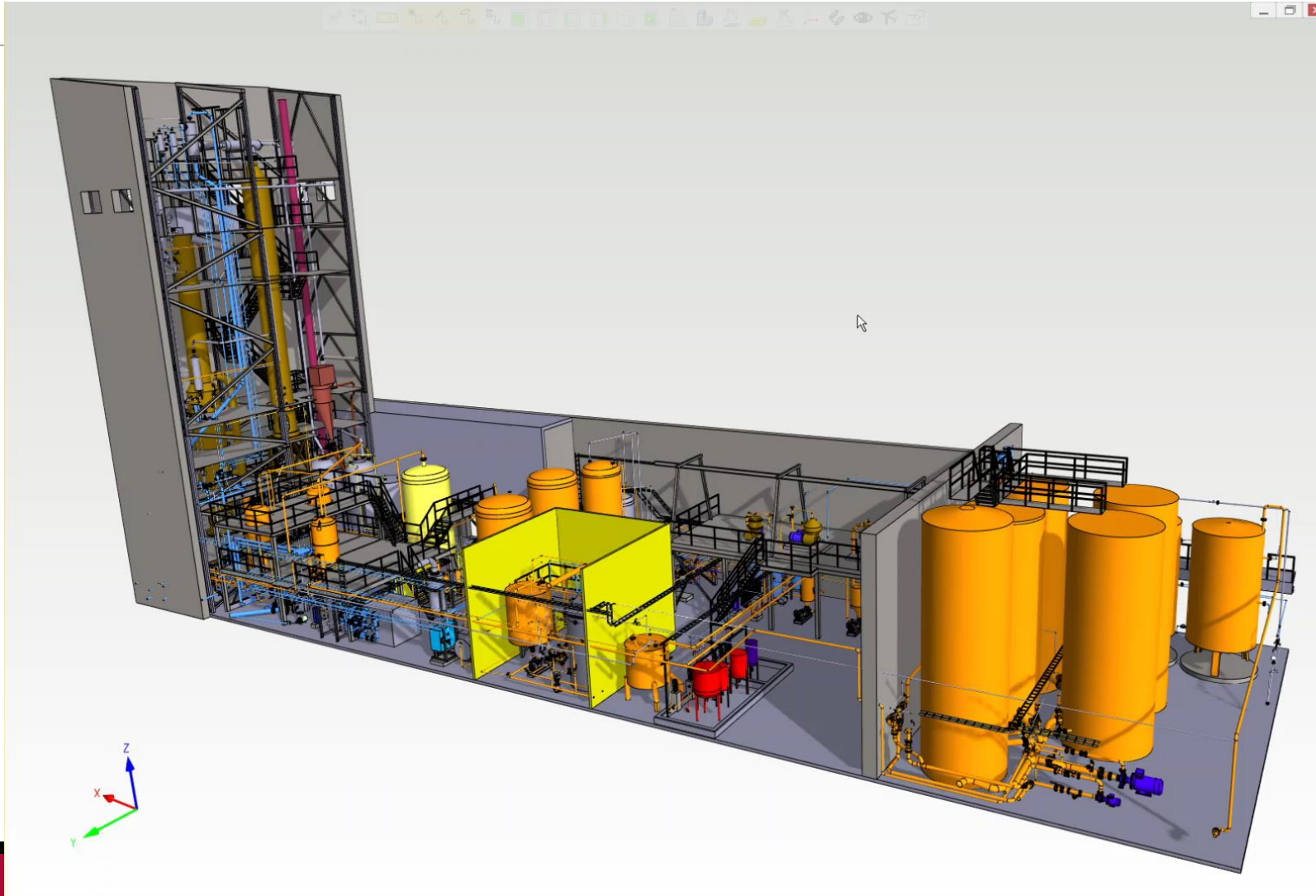
# Example projects

Point cloud and piping:  
Oilseed (rapeseed) factory



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# Example projects

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Point cloud and piping:

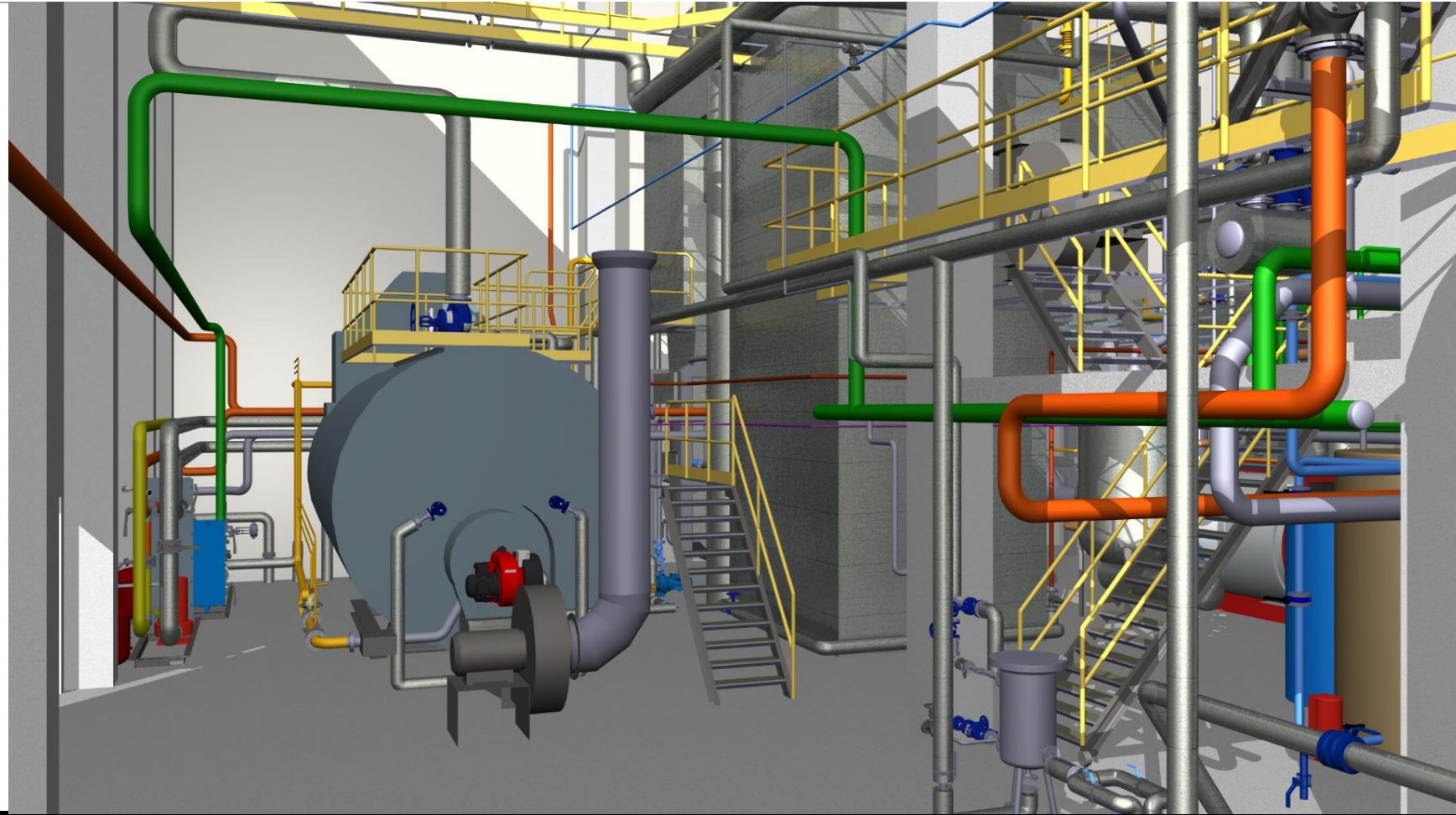
Steam boiler house for  
meat factory



## Example projects

Point cloud and piping:

Steam boiler house for  
meat factory



# Example projects

Point cloud and piping:

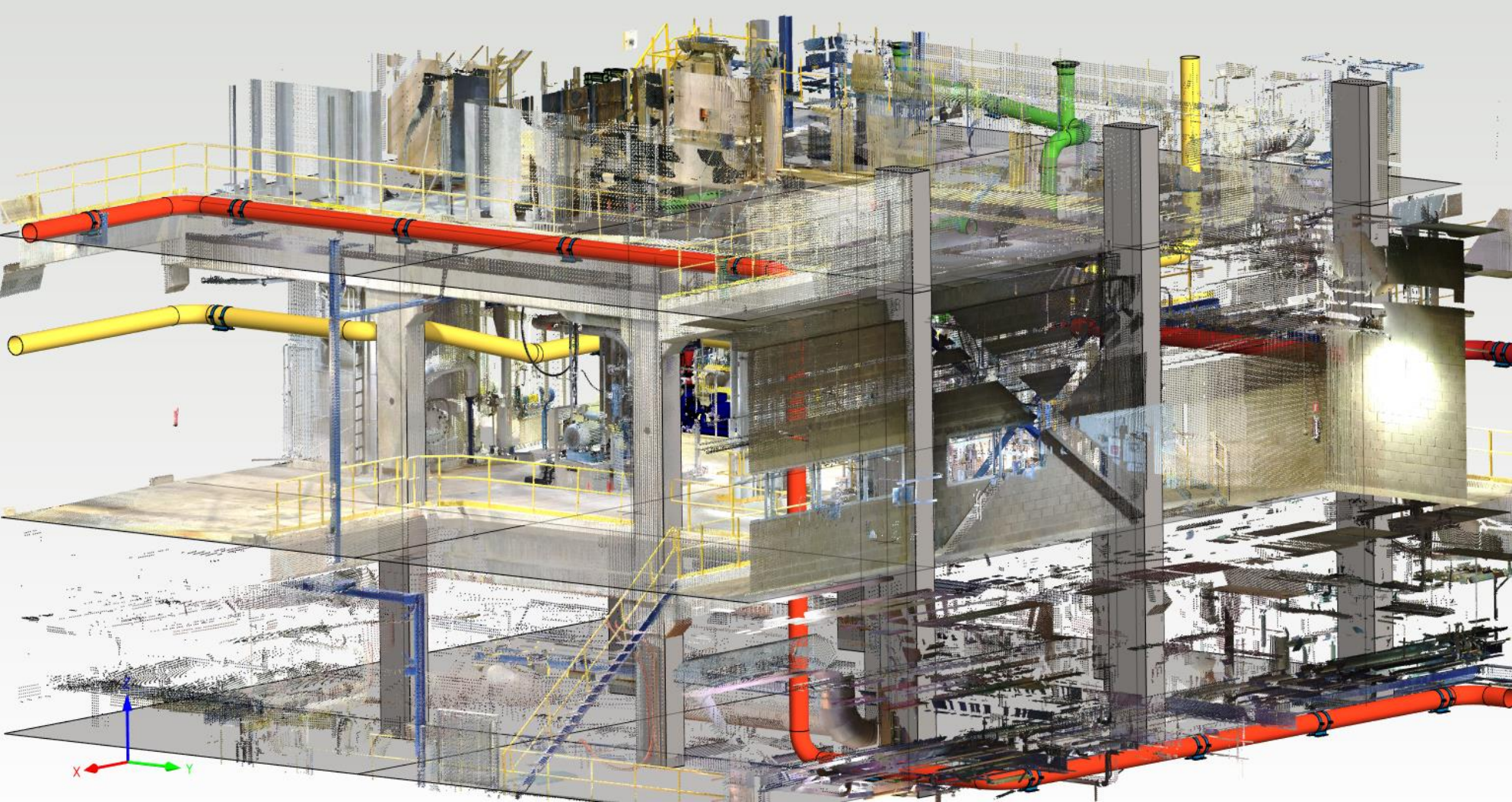
Pulp mill



# Example projects

Point cloud and piping:

Pulp mill



## Company contacts

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Teamwork Engineering OÜ

**Address:** Kivikülvi 7, Tallinn 12919, Estonia

**Phone:** +372 5110916

**Web:** [www.twe.ee](http://www.twe.ee)

**Email:** [info@twe.ee](mailto:info@twe.ee)