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2000 Est. Bioprojektas (Now TEC Industry)

Est. Tiltų Ekspertų Centras (Now TEC Infrastructure)

2005 2006 2003 2004

Start of bridge design

Start of biomass plan-design

Start of railway design

Start of technical supervision

2011

2010

2009

2007



Start of heritage projects

Start of CHP

design

Start of design of industrial facilities

Start of export

2013

Start of waste to energy plant design

Introduction for BIM in our daily activities

2014

Certification in nuclear energy facilities

Start of design nuclear industry

TEC Infrastructure (renamed from Tilty Eksperty Centras)

TEC Industry (renamed from Bioprojektas)

TEC Consulting (establishment of the company)

2020

2017

2016

2015

Export reaches 30%

Start of OIL and GAS design

First awards for TEC's designs

Start of onshore wind farms



Mission

We turn bold ideas into meaningful projects



Vision

Engineers serving well-being of future societies



Values

Expertise Cooperation **Efficiency Improvement**







17 Project managers



15Technical supervisors



15 Process engineers



4HVAC engineers



+ Others



5 Architects



6Commissioning engineers



25
Civil and structural engineers



6Electrical and automation engineers



100+
Professionals



800+Projects
experience



6,7 mln. EUR **2021** 5 mln. EUR 2020



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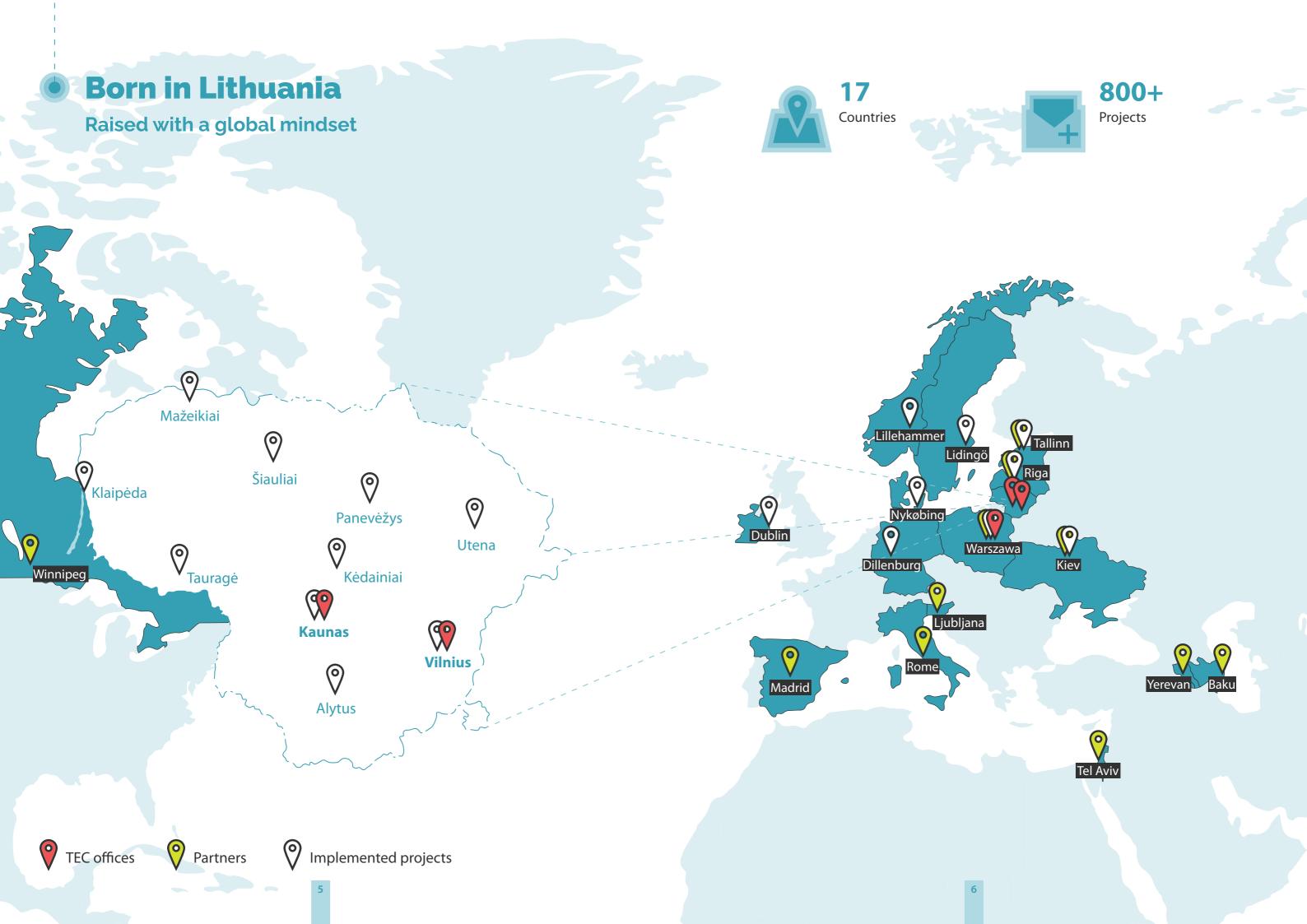


500+
Happy customers and counting





17 Countries export: 2020 - 27 % 2021 - 33 % 2022 - 36 %



So, what do we do?

So, what have we achieved?

Expertise and support for projects

YOUR PROJECT

----- DEVELOPMENT

Environmental impact assessment Feasibility studies Engineering analysis Financial counseling Implementation modelling Due diligence Mediation and arbitrage Legal advisors

Commissioning
Lease agreement
Decommissioning/reinstate landscape
Compliance with operational permitting
Performance assessment and optimize
Connection agreement
Technology updates and upgrades
Operational agreement

DESIGN AND ENGINEERING

A-Z PROJECT
MPLEMENTATION

OPERATIONS

Pre-design solutions
Concept design
Process engineering
Detail design
HAZOP sessions and
SIL verification
BIM coordinator

3.

CONSTRUCTION

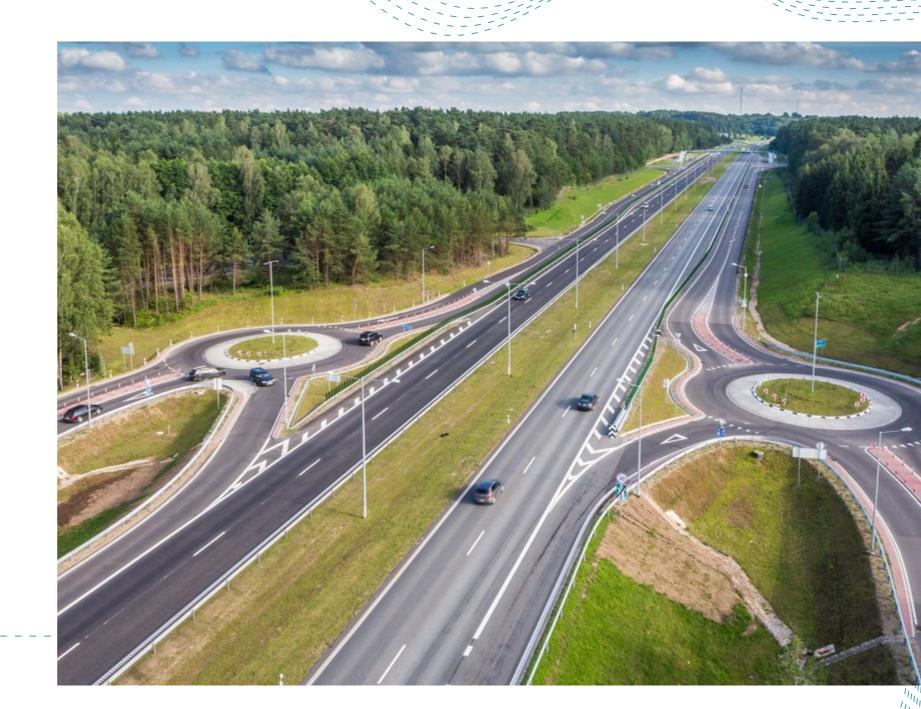
Technical supervision Construction and design supervision FIDIC engineer services Construction management Construction permit procedure Tendering and management of contractors Execution risk management Health and safety coordinator services Schedule control management Budget control and management Documentation control and management Claim management Acceptance procedure management Risk management Quality assurance Tendering for materials and equipment Mediation

Infrastructure projects

With technical and economic know-how we have been a part of major improvements for efficient transportation and society well being. We deliver our design and project management services to all types of transport infrastructure:

- Roads and Highways
- Railway
- Bridges and other overpass structures

- Services we provide:
- concept and detail design
- project management



- consulting
- technical supervision



Roads and highways

Road A14 Vilnius-Utena



Lithuanian Road Administration



Lithuania



Sections 16,80–17,64 km and 20,84–21,50 km Total length – 25,217 km Road width – 39 m Number of lanes – 4 Lane width – 3,5 m



Services we had carried out:

construction technical supervision





Panevėžys Bypass A17

 $\left(\underbrace{A}^{\perp} \right)$

Lithuanian Road Administration



Lithuania



Sections 10,53–18,8 km and 10,53–22,06 km Total length – 2,41 km Road width – 7 m Number of lanes – 2 Lane width – 3,5 m



Services we had carried out:



concept and detail design



design implementation supervision



Bridges and other overpass structures

Pedestrian bridge over the river Venta



Atamis, UAB



Kuršėnai, Lithuania



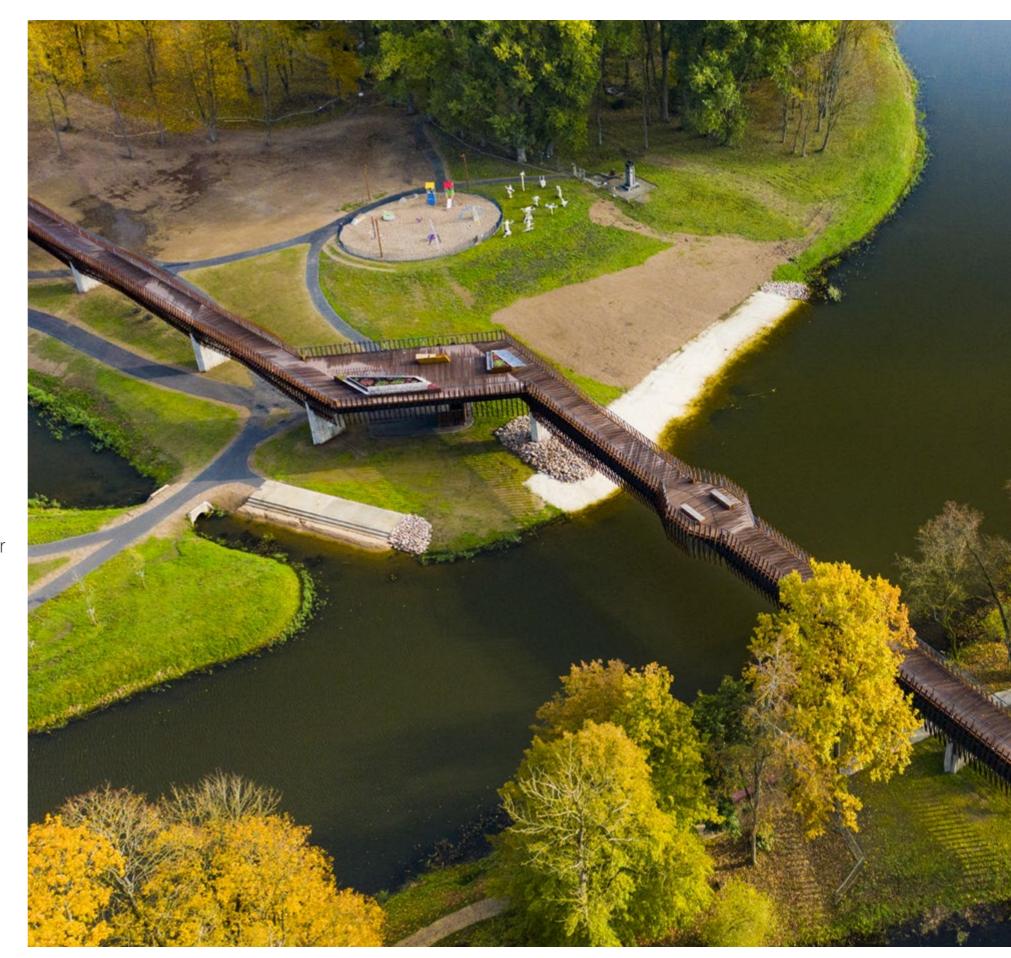
Type of structure – multi-span continuous girder Material – steel Length – 267,88 m Width – 3 / 10 (v)



Services we had carried out:



detail design





Bridges and other overpass structures

Pedestrian bridge over the river Nemuna



Kaunas City Municipality



Kaunas, Lithuania



Connecting Nemunas Island and King Mindaugas ave. Type of structure – truss-arch / frame Material – prestrest concreate Length – 73,42 m Width – 6,2 m



Services we had carried out:



design implementation supervision





Energy projects

Our highly qualified engineers and consultants work on complex projects changing the landscape of energy use and environmentstarting from design, project management to and construction supervision and commissioning:

- Process engineering
- Natural gas plants
- Biomass plants
- Combined heat and power plants
- Waste to energy plants
- Renewable energy
- Commisioning services



- concept and detail design
- project management
- construction management



- commissioning and operations
- consulting
- technical supervision

Process engineering

IDEX Taika cogeneration power plant



Idex Taikos elektrinė, UAB



Kaunas, Lithuania



Biomass steam boiler – 20 MW Turbo generator – 4,9 MW Fuel – wood chips



Services we had carried out:

- O^O
- project management
- design implementation supervision

concept and detail design





Natural gas plants

Nordic Sugar Kėdainiai boiler house



Nordic Sugar Kėdainiai, AB



Kėdainiai, Lithuania



Four steam boilers at 25 tph, P = 10, T = 190 oC /



Services we had carried out:



concept and detail design



EPCM project management



construction management



design implementation supervision and construction technical supervision



construction HSE coordination





Biomass plants

Oneks Invest biomass power plant



Oneks Invest, UAB



Biruliškių g. 6A, Kaunas, Lithuania



Thermal output of biomass boilers – 2 x 20 MW Two condensing economisers 2 x 4,75 MW Electrostatic presipitators 40m height chimney 1800 m DH network line (Ø600) Fuel – wood chips and forest residue



Services we had carried out:







Combined heat and power plants

VÄO 2 CHP plant



Utilitas Tallinna Elektrijaam, Oü



Tallinn, Estonia



Thermal power output of three steam boilers – 76,5 MW Turbo generator capacity – 21,4 MW Three electrostatic presipitators and three 5MW flue gas condensing economisers Fuel – wood chips and peat



Services we had carried out:

- project management
- design implementation supervision
- concept and detail design
- commissioning and operations



Waste to energy plants

Kaunas waste to energy combined heat and power plant

Standardkessel Baumgarte, GmbH



Kaunas, Lithuania



Thermal power – 70 MW Turbo generator – 24 MW Fuel – municipal waste



Services we had carried out:



commissioning and operations



Renewable energy

Ratipera Wind Farm



ABO Wind AG



Finlandia



Electrical capacity – 9 x 3 MW



Services we had carried out:



construction management



construction technical supervision



Commisioning services

Vilnius waste to energy combined heat and power plant

(a) Budimex S. A.

Vilnius, Lithuania

Thermal power – 229 MW Turbo generator – 92 MW Fuel – municipal waste

Services we had carried out:

commissioning and operations, guaranteed performance measurements





Industry projects

We have gained 20 years experience in design and construction management of facilities that serve various industries including:

- Oil and gas
- Storage and logistics
- Manufacturing industry
- Pharmaceuticals and biotechnology
- Nuclear
- Aviation industry



- concept and detail design
- project management
- construction management



- commissioning and operations
- consulting
- technical supervision



Oil & Gas

Klaipėdos Nafta dark oil product offloading ramp



Klaipėdos nafta, AB



Klaipėda, Lithuania



Railway lines – 2 Simultaneous loading of tanks – 32 Length of gantry – 250 m



Services we had carried out:



concept and detail design





Oil & Gas

ORLEN Lietuva bitumen offloading system



ORLEN Lietuva, AB



Mažeikiai, Lithuania



Construction, reconstruction or demolition of:

- Railway infrastructure, loading gantries
- Oil product reservoirs and service areas
- Pumps, compressors, scales, related E/A systems
- Firefigting system



Services we had carried out:



concept design HAZOP analysis tender documentation preparation





Storage and logistics

JW Trade storage warehouse with a new office



JW Trade, UAB



Šiauliai , Lithuania



Warehouse area – 2000 m2 Height of the building – 11,66 m Storage height – 8,7 m Area of administrative premises – 400 m2



Services we had carried out:



EPCM project implementation



construction technical supervision





Manufacturing industry

Hemp fiber production plant



Naturalus Pluoštas, UAB



Kėdainiai, Lithuania



Products – hemp fiber, shives, biomass pellets Production and storage area – 7000 m2 Processing capacity – 30,000 tons/year



Services we provide:



concept and detail design



project management



design implementation supervision





Manufacturing industry

Continental Automotive Lithuania factory expansion

 $(\underline{\hat{a}})$

Continental Automotive Lithuania, UAB



Kaunas, Lithuania



Existing factory expansion – 10 000 m2

Office and warehouse expansion – 5000 m2

Height of the building – 17,1 m

International standards – LEED Gold, FM Global

Special environment – dust, moisture, temperature control



Services we had carried out:



construction management



construction technical supervision





New biotech laboratory

(<u>A</u>) Sanobiotec R&D, UAB

Vilnius, Lithuania

Area of laboratory – 245 m2 Office area – 270 m2 Clean rooms, high hygiene conditions, integration into an existing building

Services we had carried out:

design implementation supervision

project management

construction technical supervision





Nuclear

Nuclear waste reprocessing B1 and B2 at Ignalina Nuclear Plant



Ignalina nuclear power plant



Visaginas, Lithuania



INPP storage & waste treatment facilities B1 & B2. Separate parts of design



Services we had carried out:



o design implementation supervision





Twin bay aircraft painting hangar



Maas Aviation, UAB



Kaunas, Lithuania



Building area – 4735 m2 Two floors Span of painting bay – 42 m Specialised air supply system



Services we had carried out:



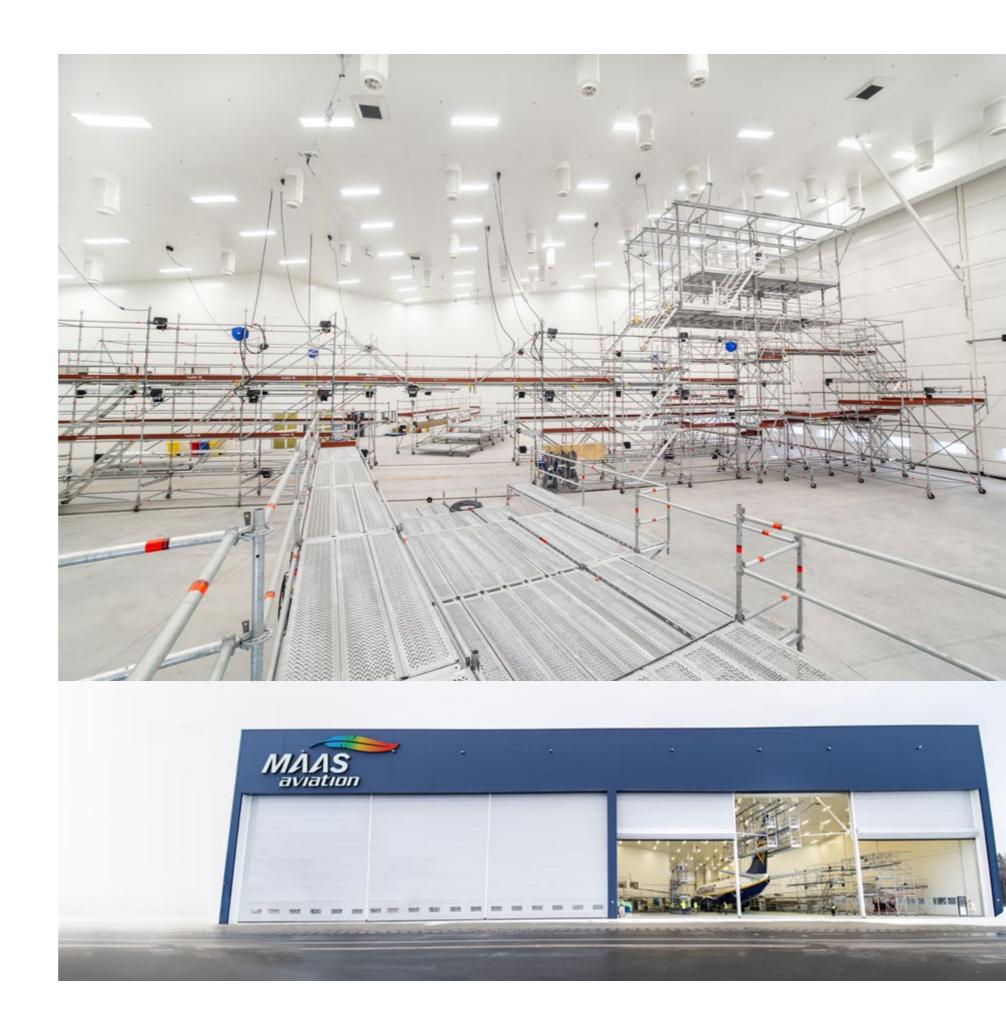
concept and detail design



design implementation supervision and construction technical supervision

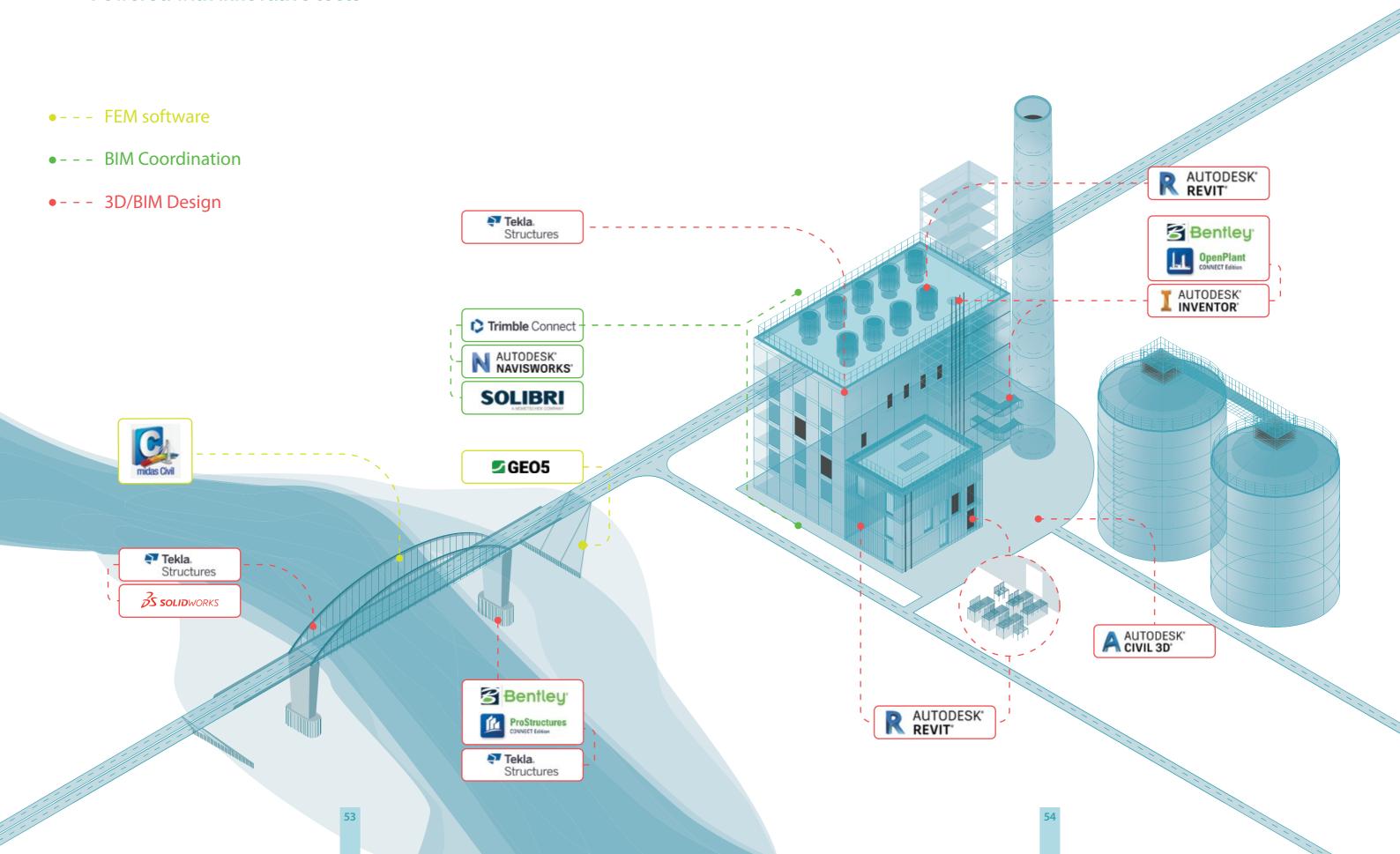


project management



Delivering innovation

Powered with innovative tools



Delivering innovation

Powered with BIM

Creating tangible benefits for Contractor:

O

resource optimization



time optimisation



minimised waste of construction materials



faster tendering



better quality & warranty control

BIM in TEC activities:



Laser scanning, drones and photogrammetric software are used to measure and digitise existing site conditions



3D Models are developed based on criteria that is important to the implementation of the building's design



Quantity take-offs are generated directly from the prepared 3D models



Common Data Environment (CDE) is used to collect, store, manage and organize all data and information related to the project



As-built models are developed after construction by physically measuring the existing facility



3D coordination software is used to determine identify 3D geometric conflicts and to eliminate it before construction

We work with







































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