

**BILFINGER TEBODIN** 

# Best Practice & Trends in Russia General Contract Management

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## Higher quality, Lower costs, Better control **BIM: Building Information Modeling**





#### **CAPEX & OPEX EFFICIENCY**

10% saving of the contract value

3% cost estimation accuracy

7%

80%

reduction of project time taken to generate

a cost estimate

time reduction

\*Based on Stanford University center for Integrated Facilities Engineering

### 3D BIM (Developed from 2012), the basics





Stakeholders work with a single model, engineered in 3D, expanded with planning (4D), costs (5D), sustainability (6D) and maintenance consequences (7D) and possibly also in VR.





## What will the future bring?



#### Market news & trends

## LONG TERM:

- Digitalization
- ✓ Factory 4.0
- Machine-to-machine communication (M2M & IIoT)
- Circular production chain

## SHORT TERM in Russia:

- ✓ 4D-6D Building Information Modelling
- Integrated life-cycle approach (7D)



### Back to Russia: Opportunities and market news/trends

- Renewable energy: investment and licenses approved for 1000 MW windfarms in Russia
- Data centers increasing continues
- Process technology modernization/upgrades
- Localization
- Ecology and energy efficiency related projects
- Expected: (Mini) LNG installations + utilities







#### **Production location 7000 m2, German client, ongoing**





- EPCM(Engineering, procurement and Construction Management.
   Basic++ (3D BIM) as basis for tender, detail design by construction contractor
- No General Contractor, choice of multi-subcontracting, gives more control and flexibility and focus by contractors on own specialty
- Advance payments still required to keep the progress ongoing
- Payment terms reduced, the only way to keep progress
- Extra attention for interfaces
- No significant delays

#### **Executive summary / Update**



#### **Executive Summary**

Project:	Nord Stream II (NSP II) Main Automation Contract (MAC)
Object:	Natural Gas Pipeline System including the Landfall Russia, Landfall Germany and the
	Dispatching Center Switzerland
Scope:	Development, delivery and commissioning of Control and Safety Systems, Fire & Gas
	systems, Telecommunication Systems, Plant security and safety systems
Execution:	07/2017 – 01/2020
Project value:	15.455.000 € (100% BGx turnover, no Joint Ventures)
Quantities:	<ul> <li>51.000 BGx man-hours for management, engineering, production and commissioning</li> </ul>

#### **Update / Current Situation**

- 1. BGx received letter from NSP II requesting to begin with preparation of the external kick off and verification of the basic design
- 2. BGx confirmed the request and starts internal kick-off workshops and project initialization
- 3. NSP II received board approval to award MAC to BGx in week 28
- 4. Contract from NSP II received 27.07.2017
- 5. Contract reviewed by BGx 07.08.2017
- 6. Negotiation bonds and site letter 09.06.2017



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## Always close