

BILFINGER TEBODIN



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Bilfinger

Bilfinger Life Science

Bilfinger Tebodin Central & Eastern Europe

Brief Company Introduction

Investing in the Czech Republic – good to know

September 5th 2023 | Taipei, Taiwan



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COMPANY INTRODUCTION



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BILFINGER LIFE SCIENCE

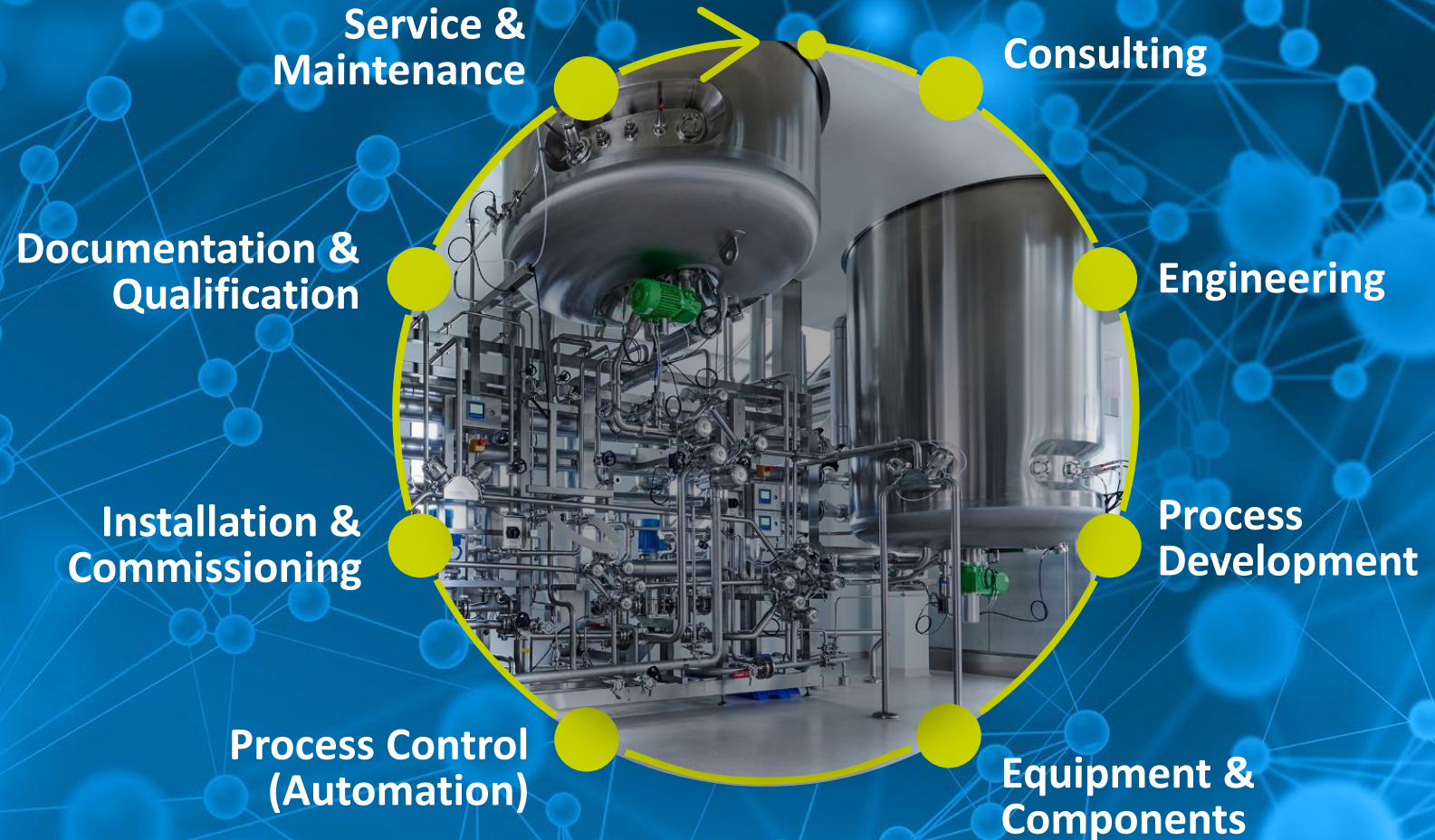
BILFINGER TEBODIN CENTRAL & EASTERN EUROPE

BILFINGER LIFE SCIENCE

Areas of Expertise in the Semiconductor industry:



- UPW
- WWTP
- Recycling / Reclaim
- Process piping
- Waste chemical discharge (incl. ATEX)
- Bulk chemical storage and distribution
- Hook – up works
- Service und maintenance
- Spare parts sales
- Calibration service for measuring instruments
- Laboratory services for water, resins, membranes and activated carbon filter media
- Training for optimized plant operation





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BILFINGER LIFE SCIENCE

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Bilfinger Tebodin CEE

Locations & Resources



Consultancy
We advise professionally to help your business grow

Process Engineering
We develop the technology design – a heart of your facility

Engineering
We design your facility to fit your business requirements and future operational needs

PMC
We manage your project at every stage to fit the time, budget and quality



➤ ~ 600 consultants, engineers and project managers

➤ Largest engineering group in CEE, 42.4m € revenue in 2021

➤ Focus on safety with 0 LTIs

➤ Own Quality Management system and OHSE manuals

➤ Certificates ISO 9001, ISO 14001, ISO 45001

Bilfinger Tebodin CEE

Wide services portfolio: pre-investment & investment phase



PRE-INVESTMENT PHASE & INVESTMENT PHASE

OPERATION PHASE

DIVESTMENT PHASE

Bilfinger Tebodin services portfolio



Business idea consultancy support

CAPEX estimation
Site selection & Due Diligence
Feasibility study & Master planning
Environmental study

Process Engineering

Process integration
Process design

Engineering

In house CSA, MEP, utilities & infrastructure
Concept, Basic, Detail design
Permitting
Tender packages

Procurement Management

Full procurement management for both construction and process equipment

Construction Management

Managing construction works on your behalf
Coordination of multiple contractors
Strongly focused on safety, time, cost and quality

Commissioning / Operation

Support even after construction completion



Typical approaches:

- **Consultant**
- **EPCm**
- **General designer**
- **PMC**

Overall project management

Markets we are active in

OIL &
GAS

PHARMA &
BIOPHARMA

AUTOMOTIVE

PROPERTY &
INFRASTRUCTURE

CHEMICAL &
PETROCHEMICAL

FOOD &
AGRO

ENERGY &
UTILITIES



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Reference projects

Foxconn

New production plant for LCD displays, Apple computers, optic switchboards and other in Czech Republic

EPCm services



AU Optronics

New production plant for LCD modules in Slovakia

120 000 m² incl. ISO 8 clean rooms

EPCm services



Bilfinger expertise in semiconductor industry:

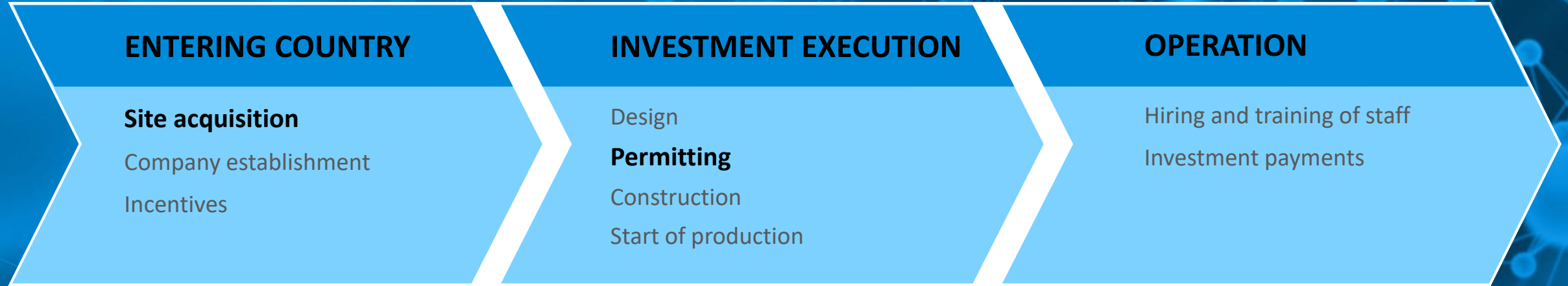
- Engineering
- UPW
- WWTP
- Recycling / Reclaim
- Process piping
- Waste chemical discharge
- Bulk chemical storage and distribution
- Hook – up works
- Steel works
- Scaffolding
- Insulation



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INVESTING IN THE CZECH REPUBLIC – GOOD TO KNOW

Investing in the Czech Republic?



Presentation content:



Site selection consultancy

Land prices



Permitting



NEW FACILITY: **WHERE TO BUILD?**

WHERE to build your facility...? 4 steps to be perfectly prepared

1

Which country?

Market research

- Supply chain
- Permitting
- Incentives
- TAX
- Labor market

2

Where in selected country?

Site selection

- Land size
- Supply chain
- Infrastructure availability
- Local regulations

3

Which plot of land is the best one?

Technical & Environmental Due Diligence

- Phase 1 & Phase 2
- Connection to Infrastructure
- On site surveys
- Environmental risks

4

What is the future concept of the facility?

Feasibility study

- Infrastructure & utilities
- CSA, MEP, Process design
- Cost estimation



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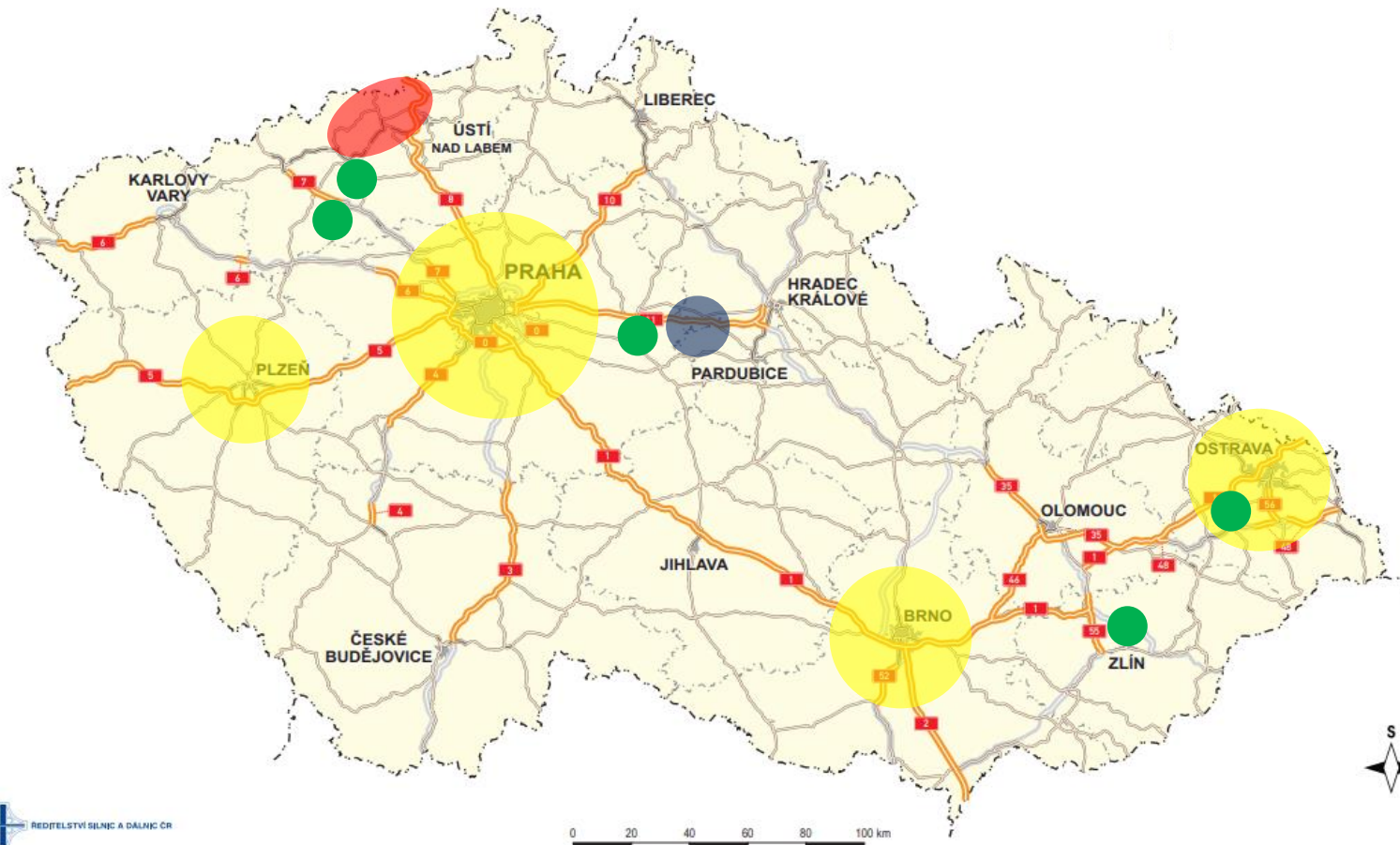
LAND ACQUISITION: LAND PRICES

Prices in the Czech Republic

- Strategic industrial zones (price from 14 EUR/sqm)
- Prime locations



Map with highway network



LAND PRICE:

25 – 200 USD/sqm

CONSTRUCTION COSTS – INDUSTRIAL HALL

900 – 2 500 USD/sqm

IMPORTANT FACORS:

- technical aspects of land
- brownfield or greenfield
- quality of permitting proces

*High number of industrial zones still available!
Many brownfields are being regenerated!*



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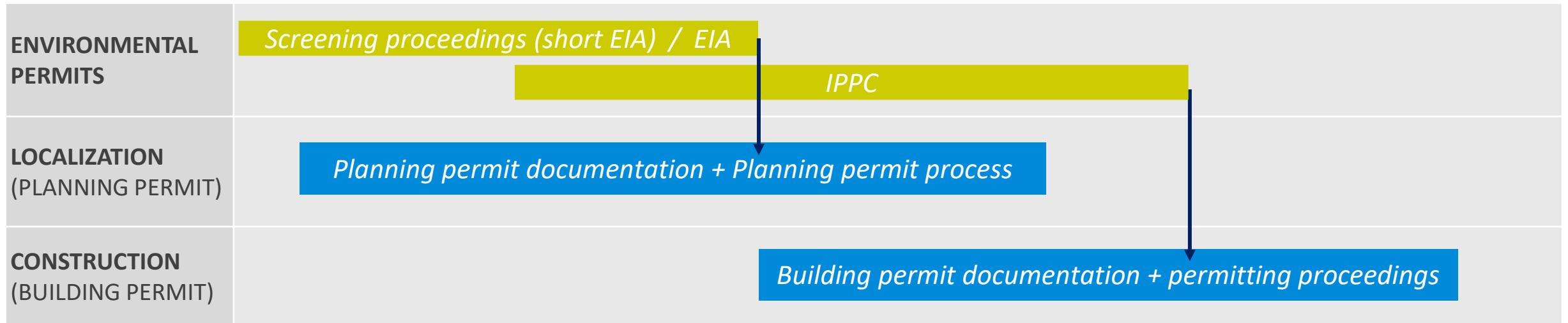
**PERMITTING: TYPICAL TIME SCHEDULE /
PERMITTING PROCEDURES CASE STUDY**

Permitting in the Czech Republic – basic information



THREE MAIN PERMITTING STAGES

Due Diligence or Feasibility study is highly recommended



IMPORTANT DIRECTIVES:

Civil code: Act No. 183/2006 Coll., as amended
(new code in preparation, no significant changes expected, will be valid from 2022/2023)

EIA and Screening process („short EIA“): Act. No. 100/2001 Coll., as amended

IPPC: Act. No. 76/2002 Coll., as amended

Permitting in the Czech Republic – CASE STUDY

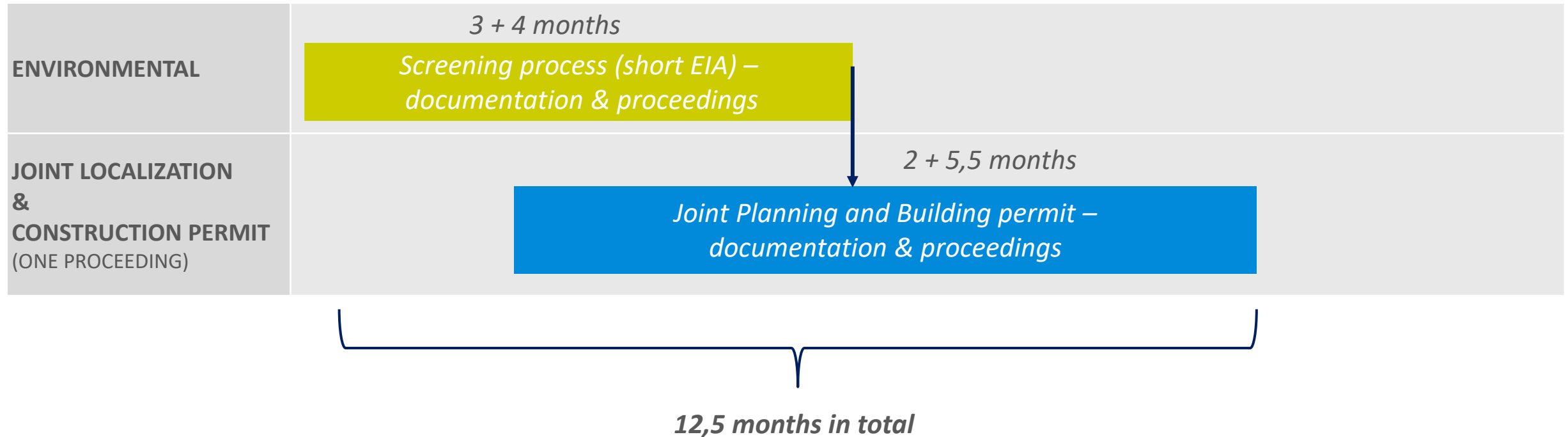
Case study:

New electrolyte production, located to existing brownfield, IPPC not required

Critical parts:

Flammable liquids (class 1)

Classification of fire protection risks in connection with the protection of public health



It is very important to have all input data from process technology and production capacity – it is essential for project permission



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