



# HOME OF CONSTRUCTION

Green Transition in Construction -  
Priorities, Challenges and Arising Skills Needs

F. Gruböck - 18.04.2024

**DORR**



## AGENDA

- |          |                     |          |                 |
|----------|---------------------|----------|-----------------|
| <b>1</b> | PORR at a Glance    | <b>3</b> | Need for skills |
| <b>2</b> | Sustainability@PORR | <b>4</b> | Q & A           |



# 1 PORR at a Glance

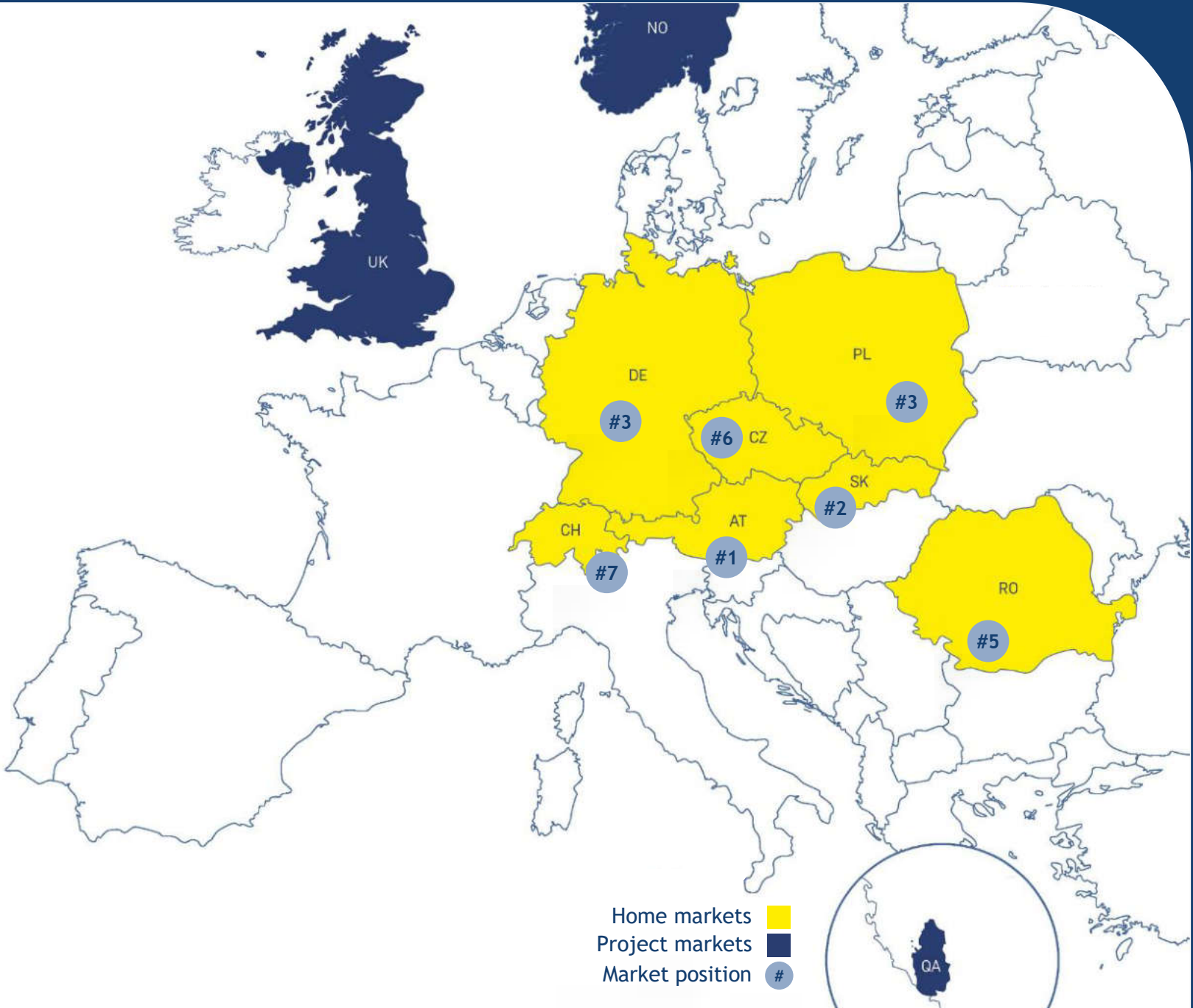


# PORR IN BRIEF

## ONE-STOP SHOP



-  ~ 21,000 Staff members
-  EUR 8.5 bn Order backlog
-  EUR 6.6 bn Production output
-  EUR 130.7m Earnings before tax (EBT)
-  2.3% EBIT margin to sales



# THE 4 D'S OF PORR

## DEMAND IN INFRASTRUCTURE AND BUILDINGS

### Deglobalisation

Resilience & regionalisation



Nearshoring and reshoring to build local supply chains

Industrial construction   Storage buildings  
R&D facilities   Clean rooms   Data centers  
Local logistics   Regional infrastructure

### Decarbonisation

+1.5 °C max. & climate neutrality



Energy transformation and circular construction

Geothermal energy   Pipeline construction  
Environmental engineering   Power plants  
Recycling   Thermal renov. & revitalisation

### Digitalisation

Artificial intelligence & digital twins



Digital transformation and operational excellence

BIM 3D - 5D   Big data   Digital processes  
LEAN Construction   Robotics   AR, VR  
Digital site   Drones   3D printing

### Demographic change

Urbanisation & ageing society



Smart infrastructure, affordable housing for generations

Railway, Slab Track   Tunnels, bridges  
Roads   Rehab clinics, medical centers  
Residential   Hotels, educational buildings



# FOCUS ON INTELLIGENT GROWTH WITH GREEN AND LEAN

## Intelligent Growth Green and Lean

Company	Staff	LEAN	ESG
<ul style="list-style-type: none"> <li>➤ Best in Class: In construction and technologies</li> <li>➤ Build on leading market position</li> <li>➤ Sustainable profitability ahead of revenue</li> <li>➤ Strong equity position and efficient deployment of capital</li> </ul>	<ul style="list-style-type: none"> <li>➤ We live our PORR Principles</li> <li>➤ The best - Best Place to Work</li> <li>➤ Nurturing talent - lifelong learning for all of us</li> <li>➤ We live diversity, equal opportunities and performance</li> </ul>	<ul style="list-style-type: none"> <li>➤ Design-build contractor - one-stop shop for every process</li> <li>➤ Innovation leader in construction technology</li> <li>➤ Pioneer in digitalisation - improving quality and efficiency</li> <li>➤ Lean, flexible and cost-conscious</li> </ul>	<ul style="list-style-type: none"> <li>➤ Clear commitment to ecological, environmentally-friendly construction</li> <li>➤ Efficient and responsible use of resources and energy</li> <li>➤ We act holistically in line with the circular economy</li> <li>➤ Clear commitment to compliance and ethical behaviour</li> </ul>
<b>We inspire our customers.</b>	<b>We build on PORRians.</b>	<b>We rely on LEAN Construction.</b>	<b>We unite economy, environment and society.</b>

# ESG RATINGS

## BEST IN CLASS



**B**  
Climate Change & Water



**C+**  
Prime Segment



**AA**  
Best in industry



**Bronze**  
Top 17 % of  
construction industry




# 2 Sustainability @PORR






# EU REGULATION THAT KEEPS US ON OUR TOES

## EU-TAXONOMY

 Classification activities according to criteria catalog


 Steer financial flows into green revenue, CAPEX, OPEX

 since RY 2021

## CSRD

Corporate Sustainability  
Reporting Directive

 Increased transparency of corporate sustainability


 Equal status of non-financial and financial reporting

 from FY 2024

## CSDDD

Corporate Sustainability  
Due Diligence Directive

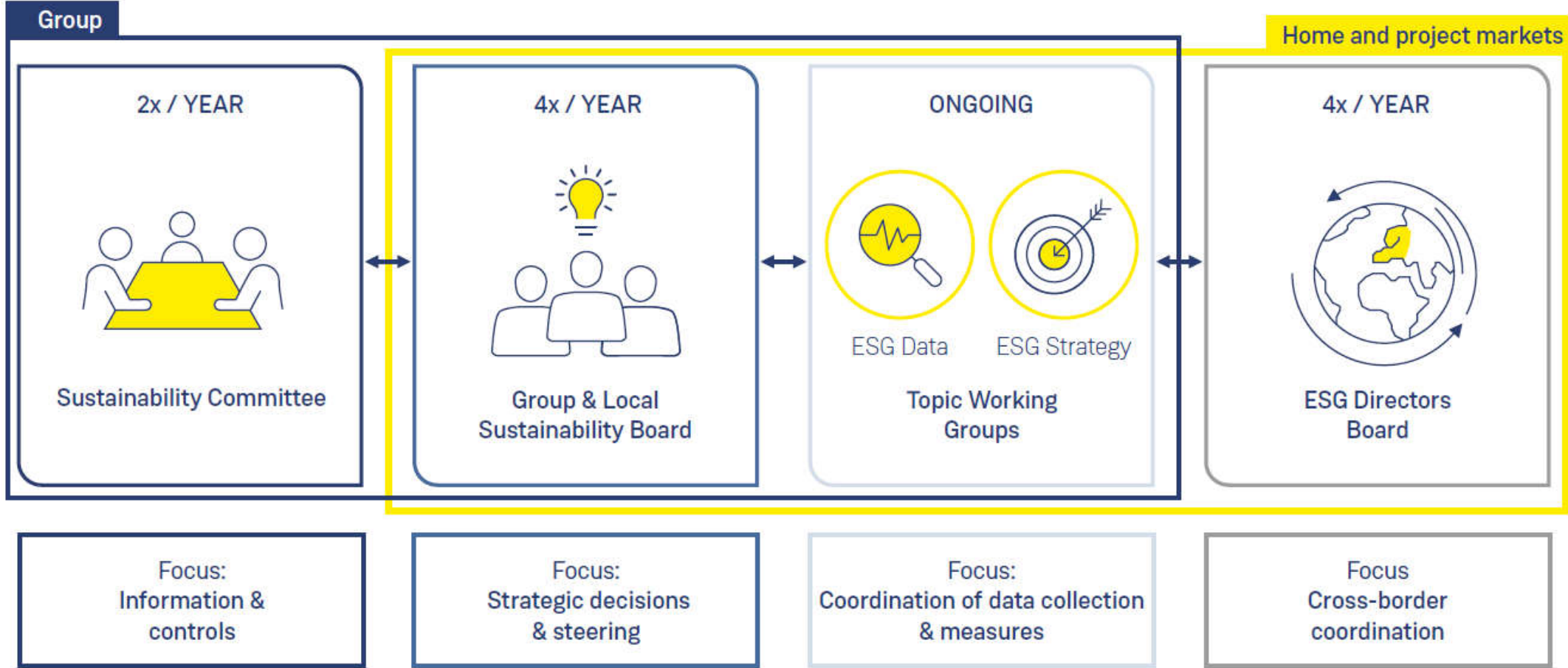
 Due diligence along the supply chain

 Compliance with high social and environmental standards

 from FY 2027

RY= Reporting year; FY= Fiscal year

# ORGANISATIONAL ANCHORING OF ESG AT PORR GROUP





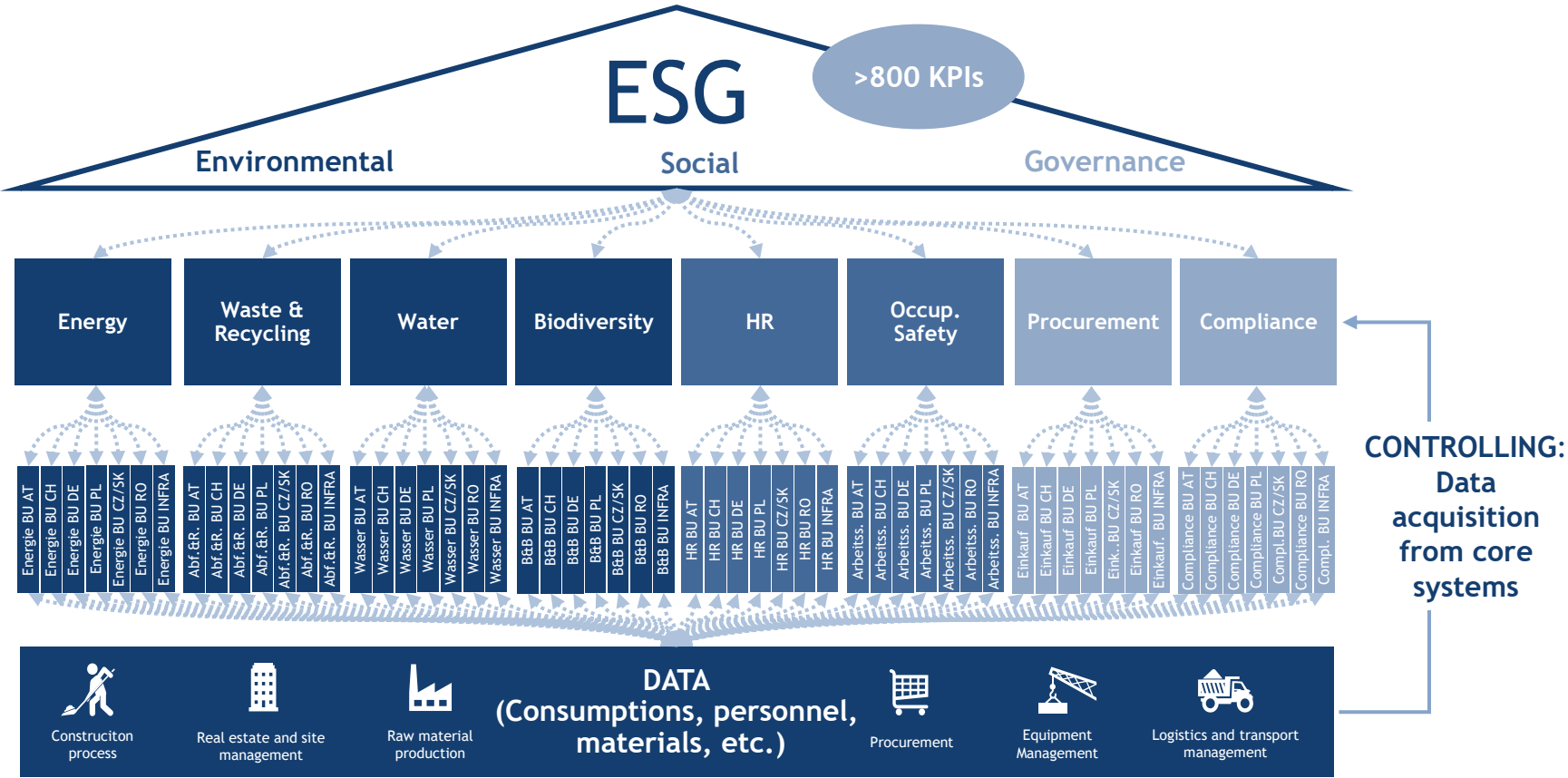
# ESG REPORTING MEASURABLE CONTROL

**CORPORATE SUSTAINABILITY**  
As the coordinating body for the entire ESG reporting and external reporting process

- SUBJECT AREAS (Group Manager)**
- Data conversion/compaction
  - Data plausibility check
  - Data interpretation

- FIELDS (Country Manager)**  
If available, otherwise by group level or country representative).
- Data collection/recording
  - Data interpretation

- FALOCAL SITES / CONSTRUCTION SITES...**
- Data collection / acquisition



# EXEMPLARY ASPECTS TO CONSIDER ON CONSTRUCTION SITE





# THINK BEYOND CONSTRUCTION

## CURRENT SUSTAINABLE DEVELOPMENTS



### LIFECYCLE

- Life cycle assessment of buildings
- Restoration concepts on the rise



### RECYCLING

- Recycling mineral construction and demolition waste
- Use of RC building materials in e.g. road construction



### RENEWABLE ENERGY

- Hydro and wind power plants for future energy
- PV systems and geothermal energy



### NEW BUILDING TECHNIQUES

- Concrete production with lower emissions
- Modular building systems
- Reduce temperature of asphalt surface

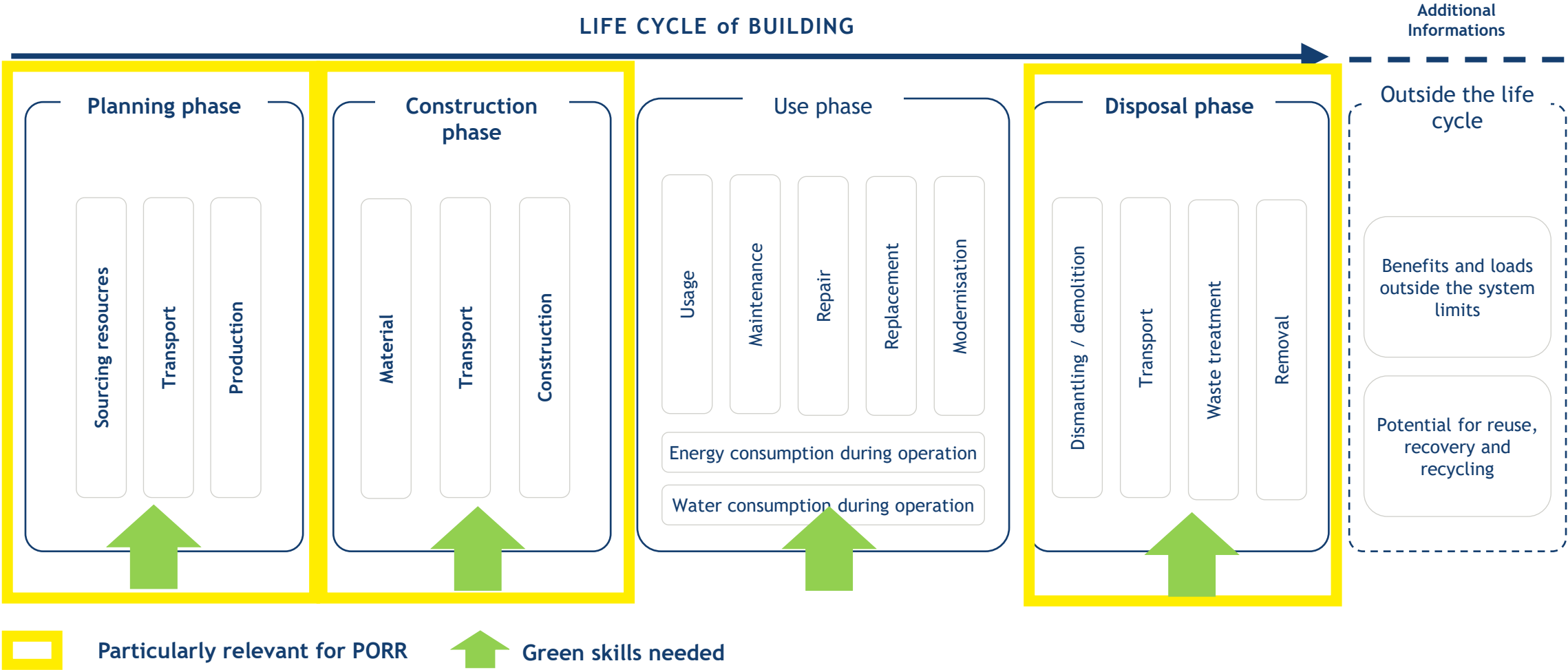
# 3 Need for skills





# CONSTRUCTION IN PHASES

## IDENTIFYING NEEDS & ROLES



# LEAN & BUSINESS INFORMATION MODELLING POTENTIAL FOR INTEGRATING GREEN





# CURRENT GAPS - AN EXTRACT NEED FOR SKILLS

## Climate change mitigation

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- Ressource & energy efficiency affecting CO<sub>2</sub>-emissions
- Life cycle analysis / calculate GHG
- Climate risk analysis
- CO<sub>2</sub>-value as characteristic in choice of material

## Circular Economy

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- Modular engineering, think of end-of-life before you construct
- Waste identification & choice of treatment, e.g. recycling
- Circular innovation - how to develop materials and its handling further

## Pollution

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- Screen materials according to harmful substances
- Consider aspects of harmful substances in procurement

# OUTLOOK

## SUSTAINABILITY HAS TO BE LIVED

### Understand



- Reflection & openness to change and learn is needed
- Training should deepen knowledge
- Holistic understanding WHY it is needed
- Green = financial

### Co-Create



- Sustainability is cross-sectional: benefit from swarm knowledge and expertise of others
- Co-creating solutions drives innovation
- We know best what is needed and possible

### Work by example



- Introduce ESG into employee evaluations
- Superiors should act as example
- Become ambassadors & take ownership

# 4 Questions?





## Contact

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## Annual and Sustainability Report 2023

