

DGNB Certificate – the Central European premium quality building label for sustainability beyond green and energy efficiency

Сертификация по DGNB - утверждение качества зданий по высшим европейским стандартам за пределами энергоэффективности и экологичности

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KLUB DEUTSCHER ARCHITEKTEN UND INGENIEURE IN MOSKAU

КЛУБ НЕМЕЦКИХ АРХИТЕКТОРОВ И ИНЖИНЕРОВ В МОСКВЕ

Competition - Which system?

Which system is the most useful basis for elaboration of the national system of Russia?

It depends.

Main differences of LEED, BREEAM, DGNB:

- focus of the system,
- strategy to achieve ratings.

LEED focus – energy efficiency.

BREEAM focus – renewable energy, recycling and location.

DGNB focus – life cycle performance, project quality.

Authority: P. Knoch E&Y

LEED

Measurable and practical

Selection of sustainable issues, covering main topics of sustainability, related mostly to energy and water efficiency.

Selection Criteria

- Measurable = comparable.

No international adaptation:

- focus of the system,
- Projects/buildings comparable globally.
- Project teams have to go the extra mile to adjust local norms to applicable US standard.

Authority: P. Knoch E&Y

BREEAM

Measurable and practical

As elaborated first, British green building standard was initially setting the rules for certification procedures.

Covers a wide range of topics, including renewable energy, recycling and location.

Selection Criteria

- To be balanced = fair.

BRE international:

- Accepts “best local practice”.
- Project teams have to go the extra mile to proof “best local practice”.

BREEAM is based on British construction norms and management rules that partially, but significant differ from the widespread European approach outside the UK.

Authority: P. Knoch E&Y

DGNB

Well thought out and complex

Being latest elaborated, DGNB learned from BREEAM's and LEED's weaknesses.

Strengthens life cycle performance and project quality.

Reduces energy efficiency domination.

Main Criteria:

- To cover most sustainable issues = profound.

DGNB international:

- Accepts local adaptation.
- DGNB International experts have to go the extra mile to elaborate local DGNB adaptations.

Authority: P. Knoch E&Y

The DGNB – Making Sustainability Measurable



Integrated design Value stability

Life cycle oriented design, construction and management

Saving resources

Improving user comfort

Quality assurance

Optimising construction processes

Evaluating sustainability

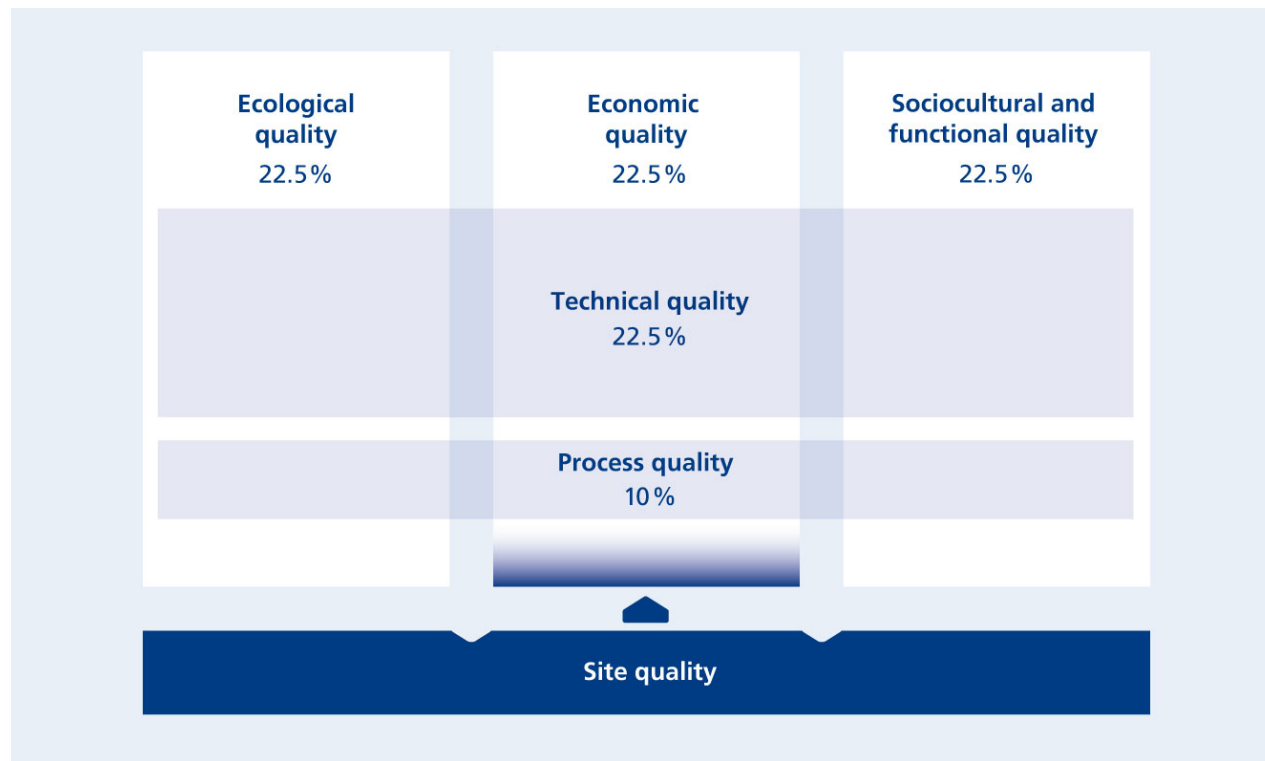
The DGNB Certification System



2nd Generation Certification System

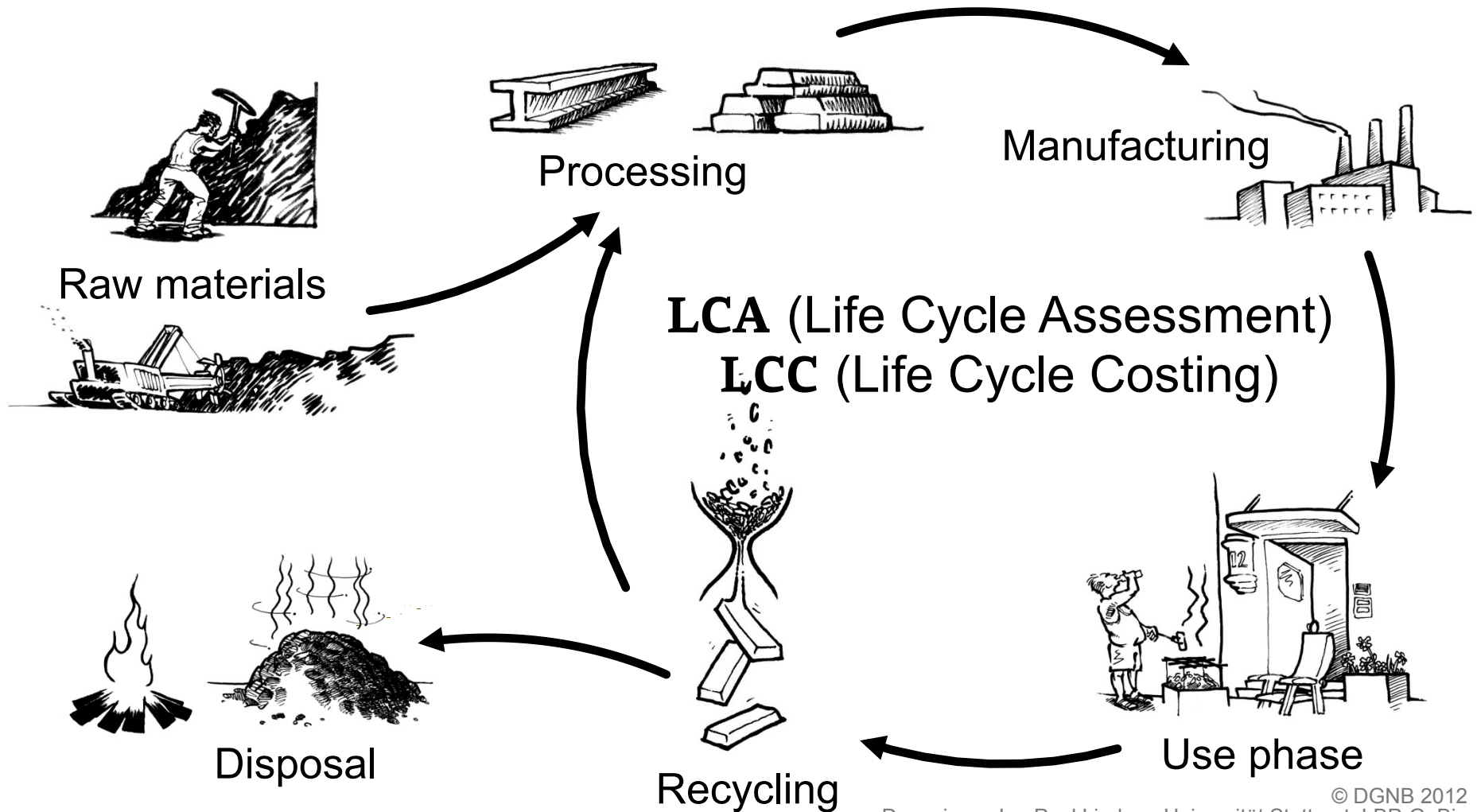
Holistic Approach

- Covering all of the main aspects of sustainability



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2nd Generation Certification System



2nd Generation Certification System

Embedded LCA (Life Cycle Assessment)

- Systematic analysis of the environmental impact of products during their entire life-cycle. Harmonized by international standards (ISO 14040 / 14044)

Emphasis on LCC (Life Cycle Costing)

- Total cost throughout the entire life-cycle incl. selected construction, operation and maintenance costs directly attributable to owning or using the asset

Oriented towards performance and targets

- Assessment of the building as a whole, not individual measures

2nd Generation Certification System

Dynamic System

- Adaptable to other technical, societal, cultural and climatic conditions

Future-Proof

- Based on European standards and guidelines (e.g. CEN/TC 350 etc.)

2nd Generation Certification System

Unified Basis

- Evaluation profiles tuned to every stage of the building life cycle
- Based on the same comprehensive quality approach



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2nd Generation Certification System

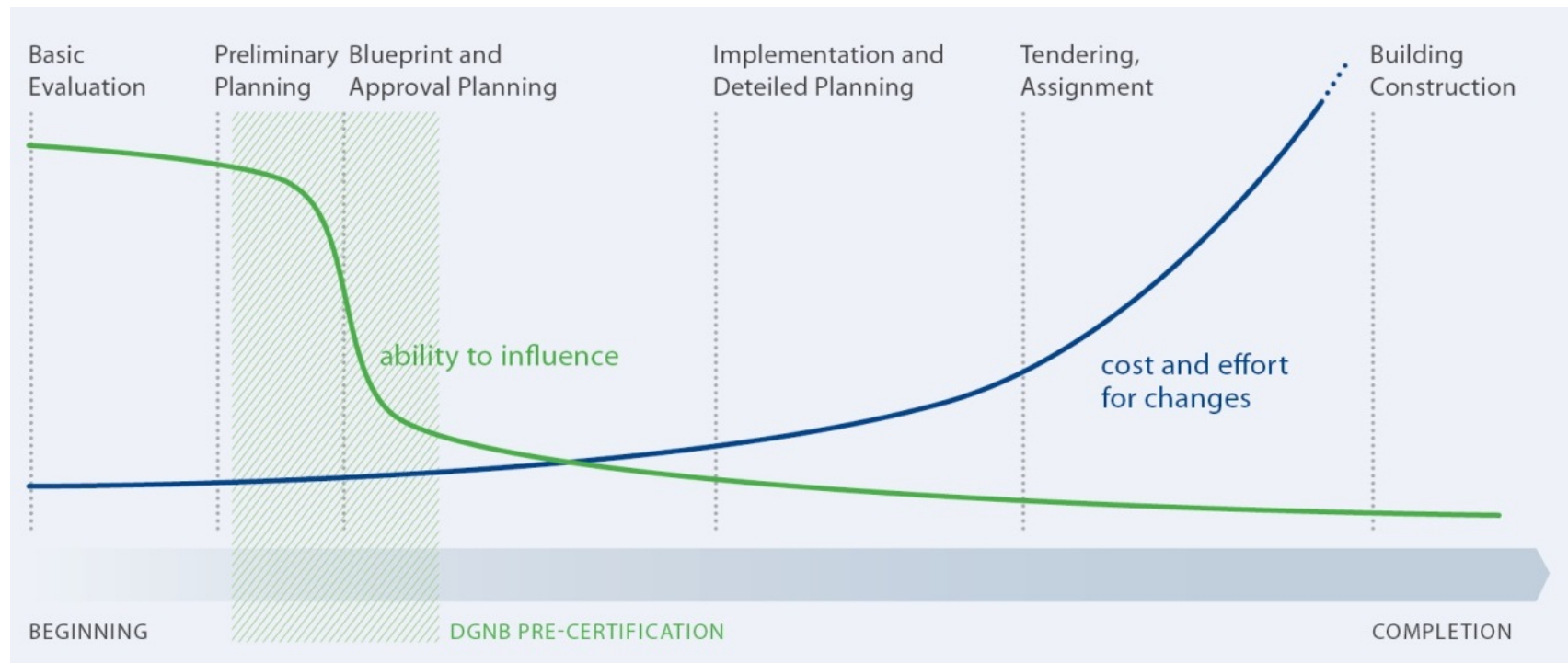
Pre-Certification

- DGNB Criteria as guiding instrument in the planning phase
- Supports risk management
- Insures transparency and clear processes
- Defines specific performance objectives
- Promotes integrated planning and early establishment of communication

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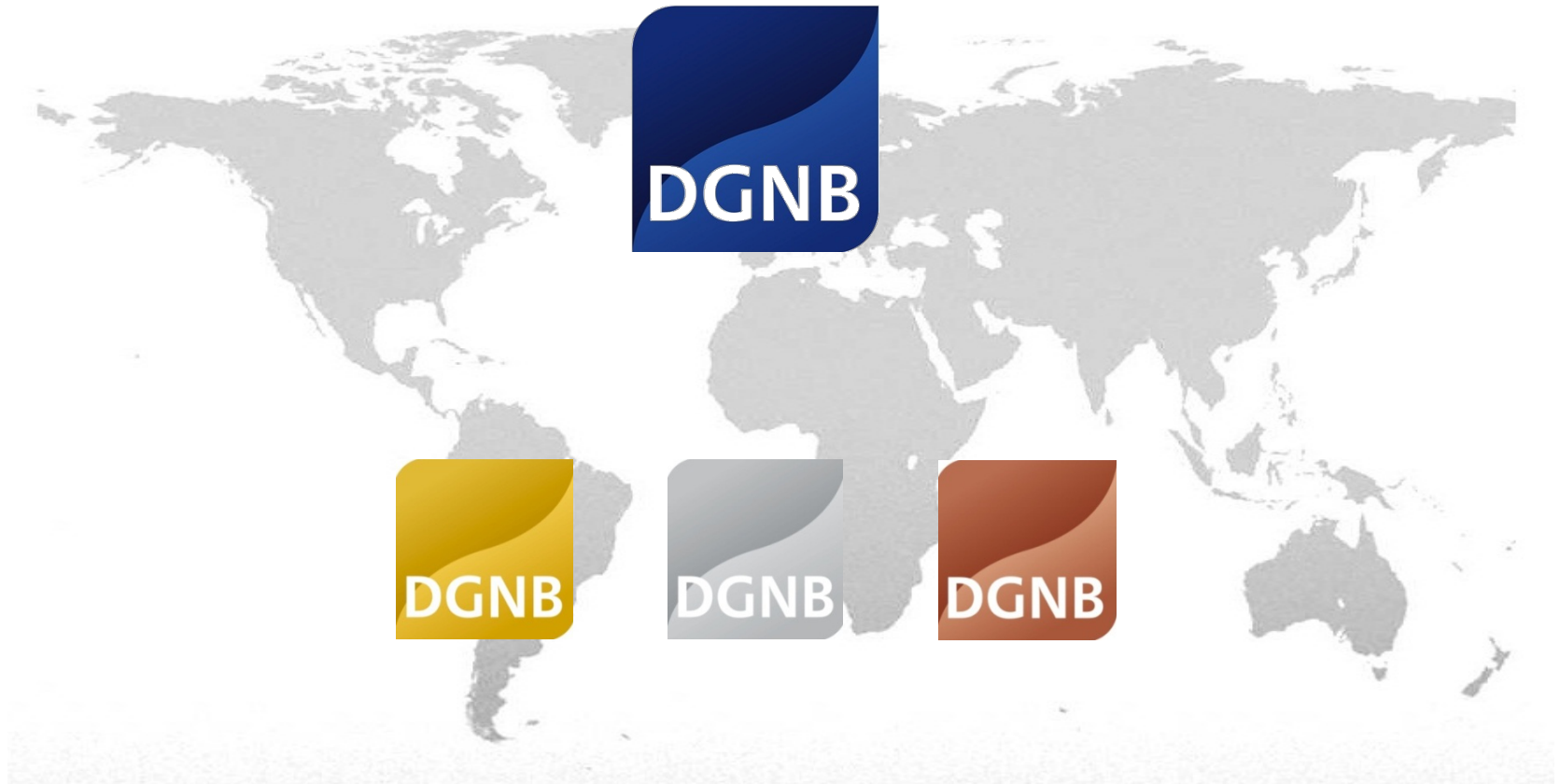
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Pre-Certification



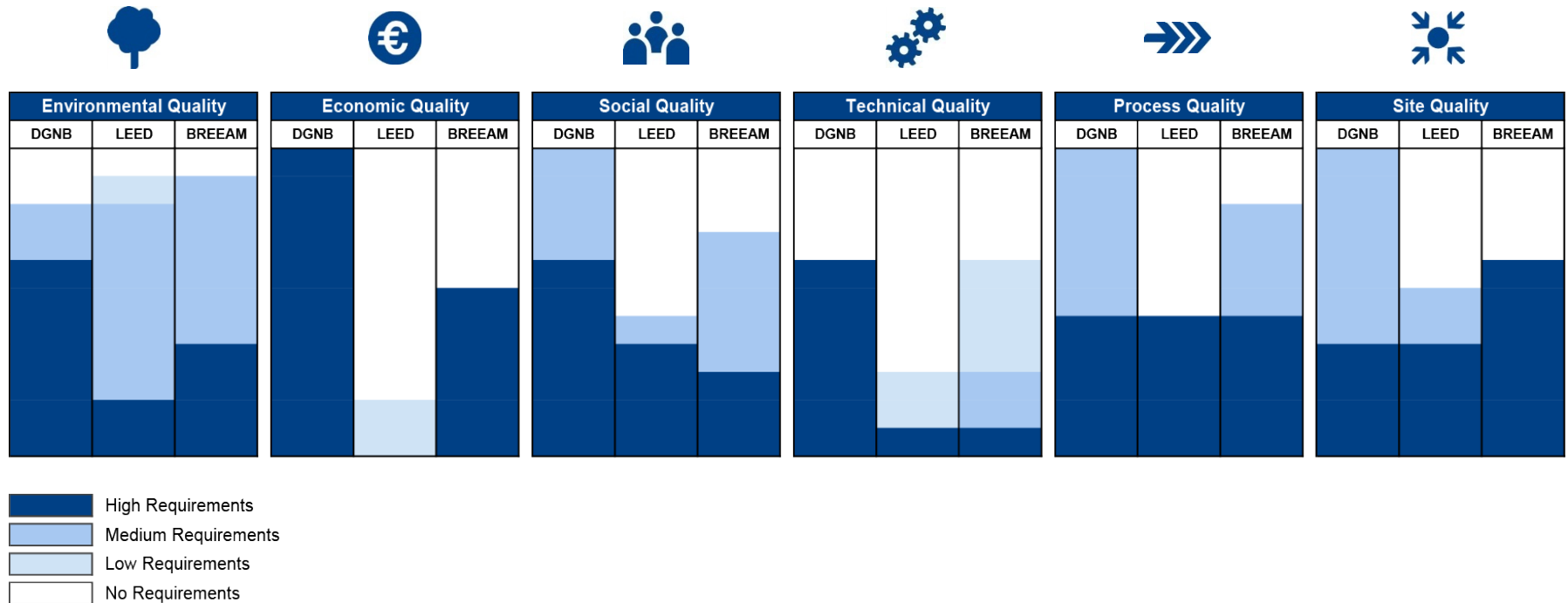
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DGNB – A Strong Global Brand



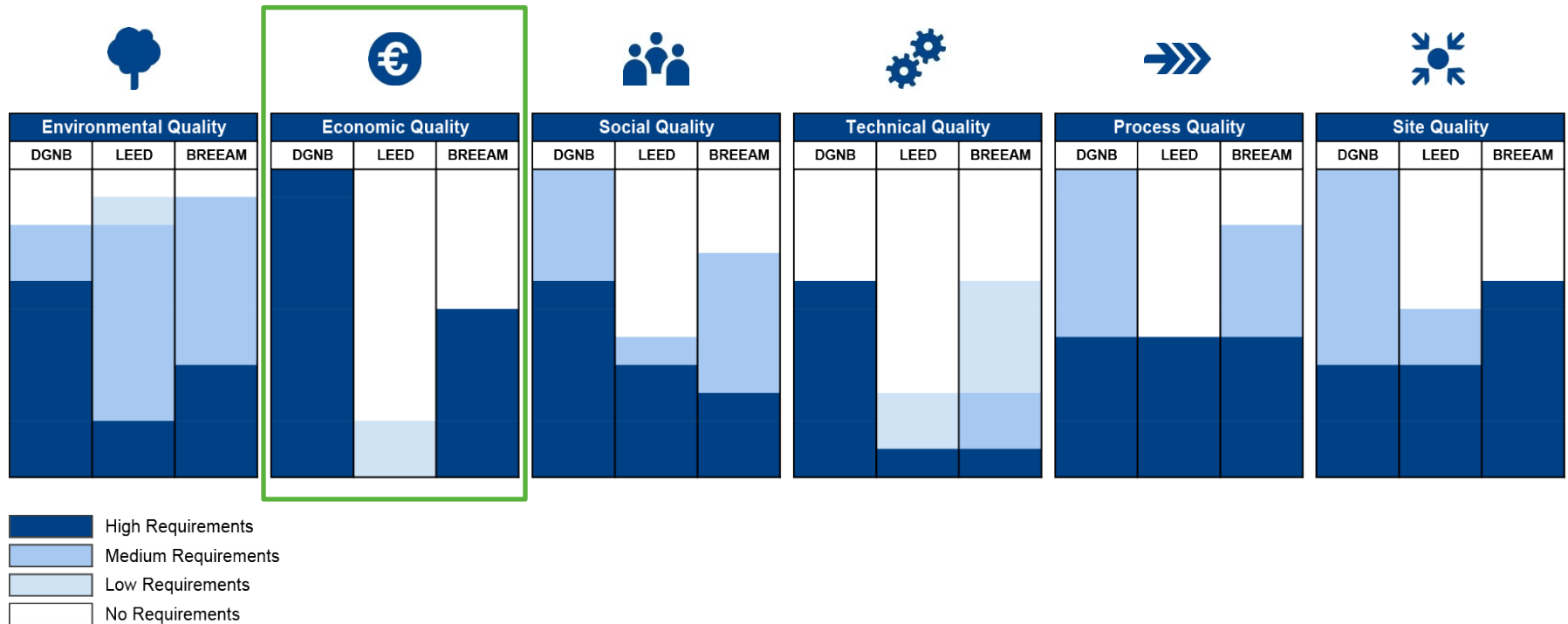
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How the DGNB System Compares Internationally



➔ The DGNB System delivers a comprehensive quality perspective

How the DGNB System Compares Internationally



➔ The only system which emphasizes economic sustainability!

Sustainable Building Worldwide

The DGNB System is internationally oriented

- Globally applicable
- Results can be compared across international borders
- Flexible system design allows adaptation to country-specific requirements



DGNB Certification is possible anywhere in the world!

Advantages of DGNB Certification at a Glance



For Investors

- Transparent and independent quality label
- International applicability and comparability
- Planning security and clear definition of objectives from the start
- Risk minimization
- Increased market potential with growing demand
- Documentation for CSR Reports
- Future-proof buildings

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Advantages of DGNB Certification at a Glance



For Occupants and Users

- Lower operating costs
- Higher user satisfaction
- Higher employee productivity
- Incorporation of buildings and facilities into marketing strategies
- Documentation for CSR Reports
- Voluntary commitment through corporate governance

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Sustainable Building is Worth It!

Drees + Sommer Report: “Additional Costs of Certified Buildings”

- Only about 0 to 4% additional construction costs for DGNB Certified buildings (LEED: up to 7%)
- Less than 0.5% additional planning and consulting costs for DGNB Certified buildings

Jones Lang LaSalle: „Offices 2020“

- 83% of real-estate professionals think sustainability is a top priority for office real estate over the next decade

 **Sustainable Building is a value driver – not a cost driver!**

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Basics

- Eurocodes in Russia
- EU Standards are Based on EN, ISO, etc.
- EN and the Eurocodes are based on the DIN (Deutsches Institut für Normung)
- Historically (back from the 19th century), Germany's DIN norms have constantly influenced Russia's construction norm system.
- DGNB system, which was initially developed based on German (DIN) norms, was recently updated to be based on European (EN) norms.

Option

Selection Criteria For this, taking the DGNB system as basis for elaborating Russia's sustainable building certification system

- will ensure the compatibility of the Russian certification system with Russian AND European EN construction norms.
- will minimize efforts to adapt local projects to specific conditions of another country or region than Russia, or Europe.
- will demonstrate comparability of the Russian certification system with European standards to Clients.



**SUSTAINABLE
is
more than green**

The FUTRE is BLUE...



...SHAPE THE FUTURE TODAY!

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