

LEAN IN THE PUBLIC SECTOR
LIPS 2016



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Representative & projectleader at The Northern Region of Jutland since 2008

DGNB-consultant 2012

DGNB-auditor 2016

Focus on LEAN Construction since 2012





BUILDING IN THE NORTHERN REGION OF JUTLAND

- We build and rebuild:
 - Hospitals
 - Institutions
 - other public Health Care facilities
- Fixed assets Investments for 2015:
 - 618 mio. kr. ~ 82,4 mio. euro´s
- Environmental impact from fixed assets:
 - emission of 23.994 tons CO²
- Focus area:
 - Optimization of the Building proces
 - Invironmental impact
 - Safety

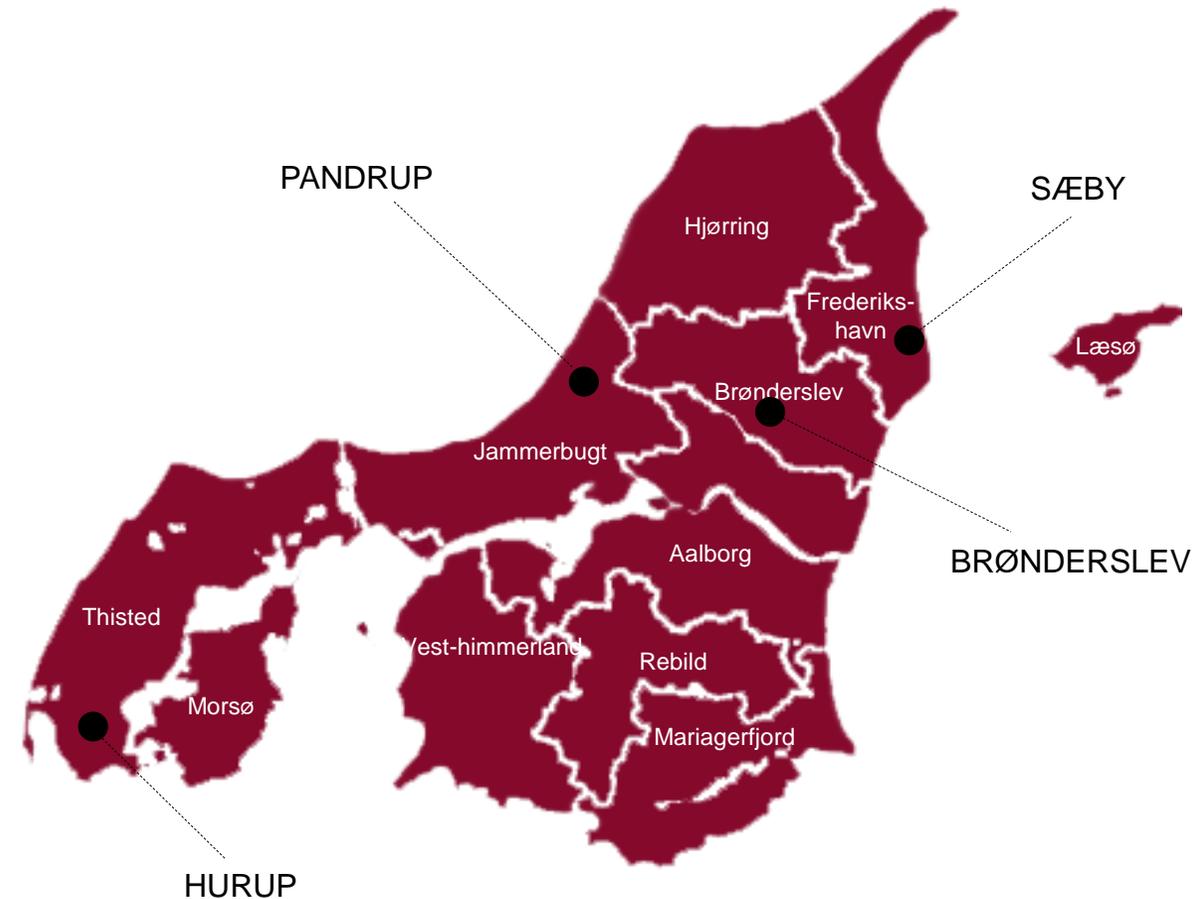




BUILDING IN THE NORTHERN REGION OF JUTLAND

- 2010 - The first Climate-Region in Denmark
- commitment to reduce our CO² – emissions with 2% per year each year until 2025
- 2012 - 4 new Buildings for Health Care facilities
 - 4 different sizes of buildings – same content
 - 4 different timelines

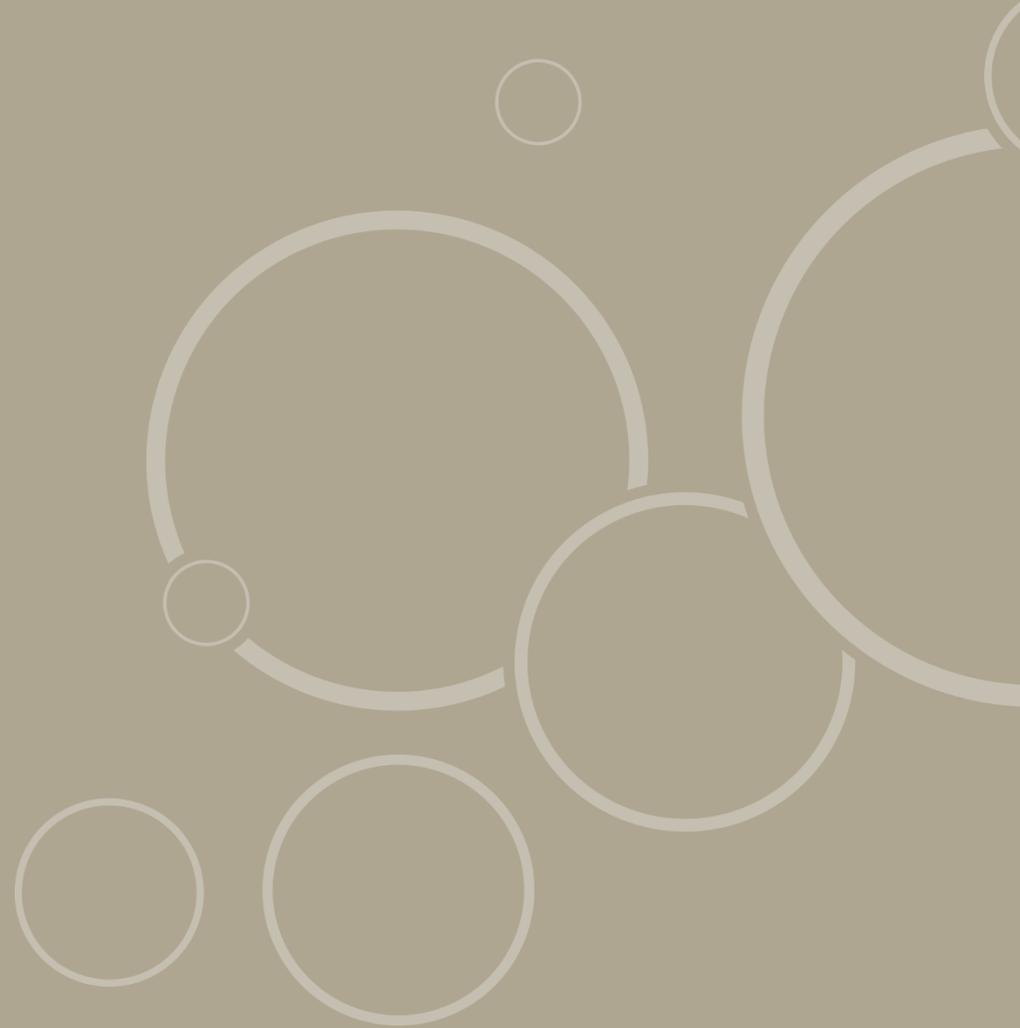
Opportunity to make stricter demands with an evaluation between each projects.





BUILDING IN THE NORTHERN REGION OF JUTLAND

- Responsibility as public Building developer – first mover
- Make ambitious demands when we put out projects to tender
- LEAN and DGNB as tools to achieve the goal – to make buildings:
 - with better quality
 - more cost-effective
 - on time
 - more sustainable





OUTCOME

Focus on the opportunities for contractors to give an offer on the building projects of tomorrow.

Focus on sustainability and the consumption of resources in the building industry.



OUTCOME

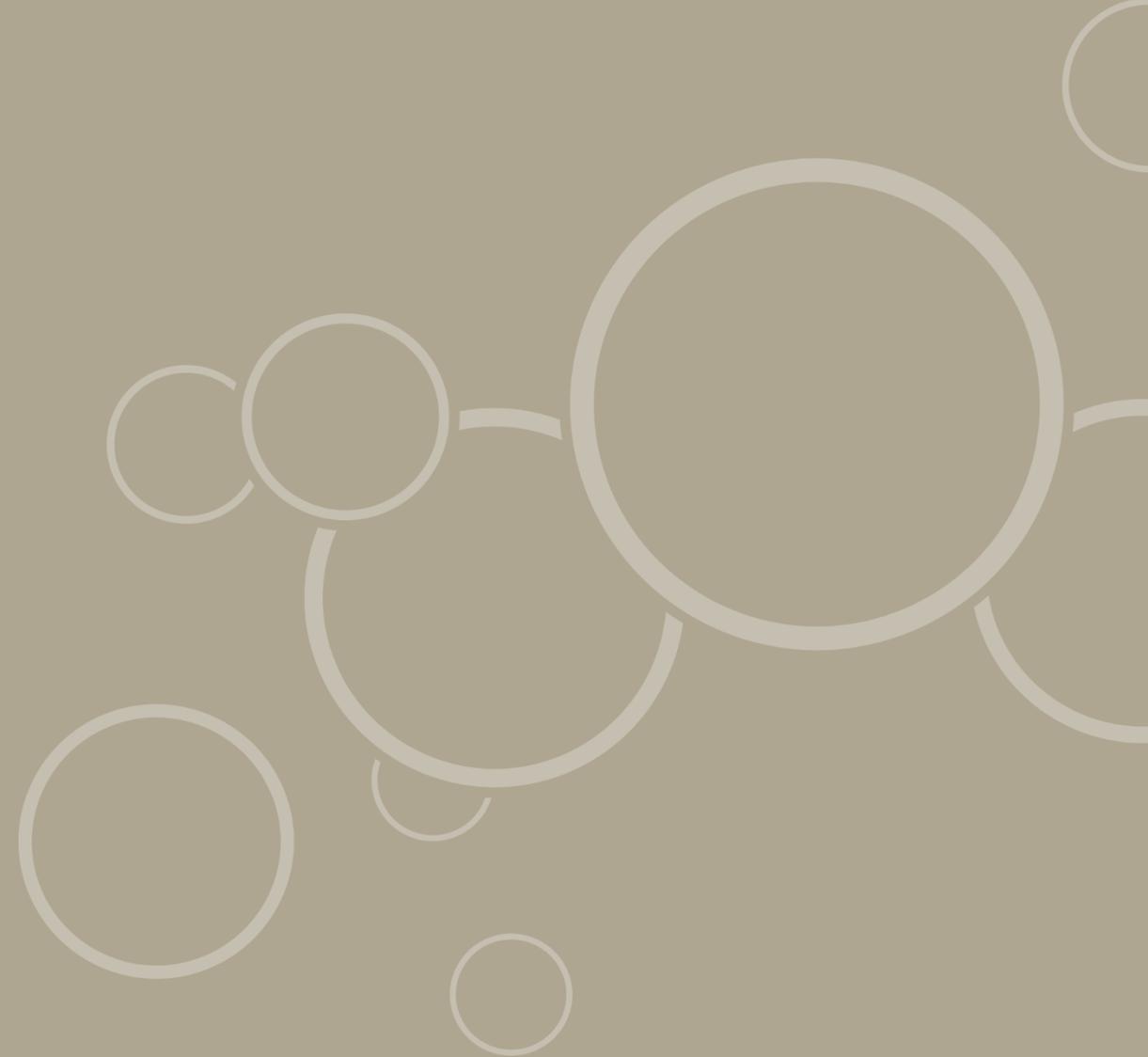
- Contractors would make the same offer if the projects were put out to tender again
- Minimum of faults and imperfections when the buildings was handed over
- 2 projects were handed over before deadline (no faults and imperfections)
- The building-sites where more neat than our other building-sites we have seen
- The building-process progressed without any accidents and with a greater "team-spirit"





LEAN VS DGNB

One does not preclude the other





LEAN VS DGNB

- DGNB - Sustainability-certification
- Documentation of the quality of the Building
- Checklist - Gets you all the way around your project:
 - Environmental aspects
 - Economical aspects
 - Social aspects
 - Technical aspects
 - Aspects of the process





LEAN VS DGNB

- LEAN - a tool to control the process of planning and building
- LEAN promotes the DGNB-certification on several areas
 - Process & planning:
 - Ensure the right decisions are made in time/as soon as possible = foundation of the DGNB-process
 - LEAN-tools=excellent documentation
 - DGNB – gives points for the Contractors ability to keep within the deadlines/timeline for the project





LEAN VS DGNB

- LEAN in the building process promotes DGNB:
 - Points for reduction in the use of materials – environmental impact (LCA)
 - Points for sorting construction waste = more tidy building-site
- Positive for the safety on the building site
- fewer occupational injuries





CONCLUSION

- The public building developer will keep on increasing the complex demands:
 - Low energy consumption
 - DGNB
 - safety on buildings-sites
 - commissioning
- LEAN = the gift to the contractor 😊





Thank you for your attention



Sundhedshus Sæby

HØVEDINGANG

SUNDHEDSHUS
SÆBY

Sølystvej 31
Hovedindgang ←





Questions?



Brønderslev Sundhedshus