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# Deep Dive Parallel Sessions

## Transforming infrastructure and urban development districts through procurement



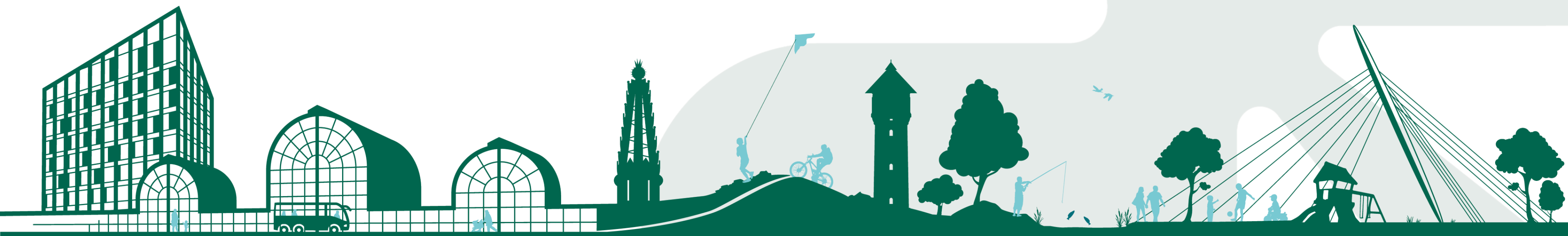
[conference.procuraplus.org](https://conference.procuraplus.org) #Procura2024

# Circular construction in Høje-Taastrup

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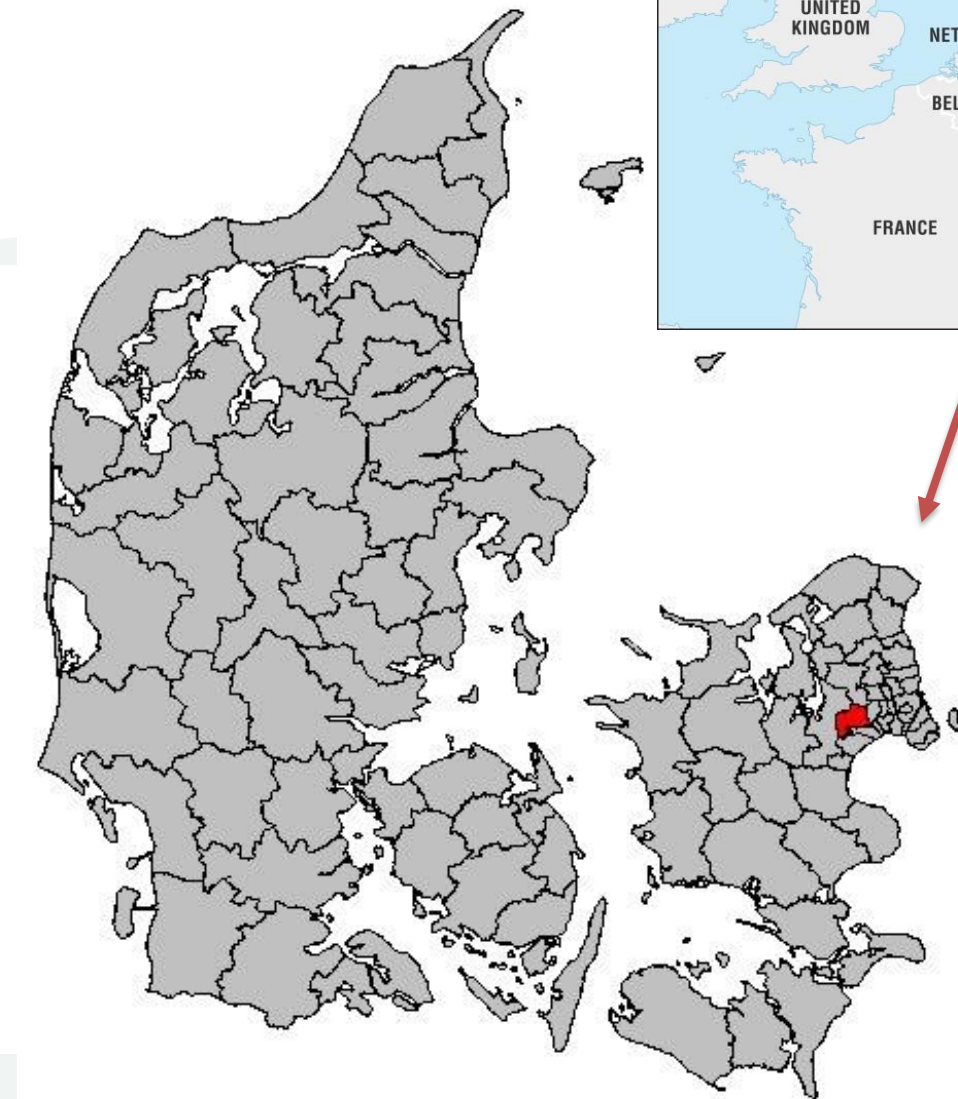
[www.htk.dk](http://www.htk.dk)





# Background and context

- Maximize resource savings, minimize environmental risk
- Under 10 years of raw materials left!

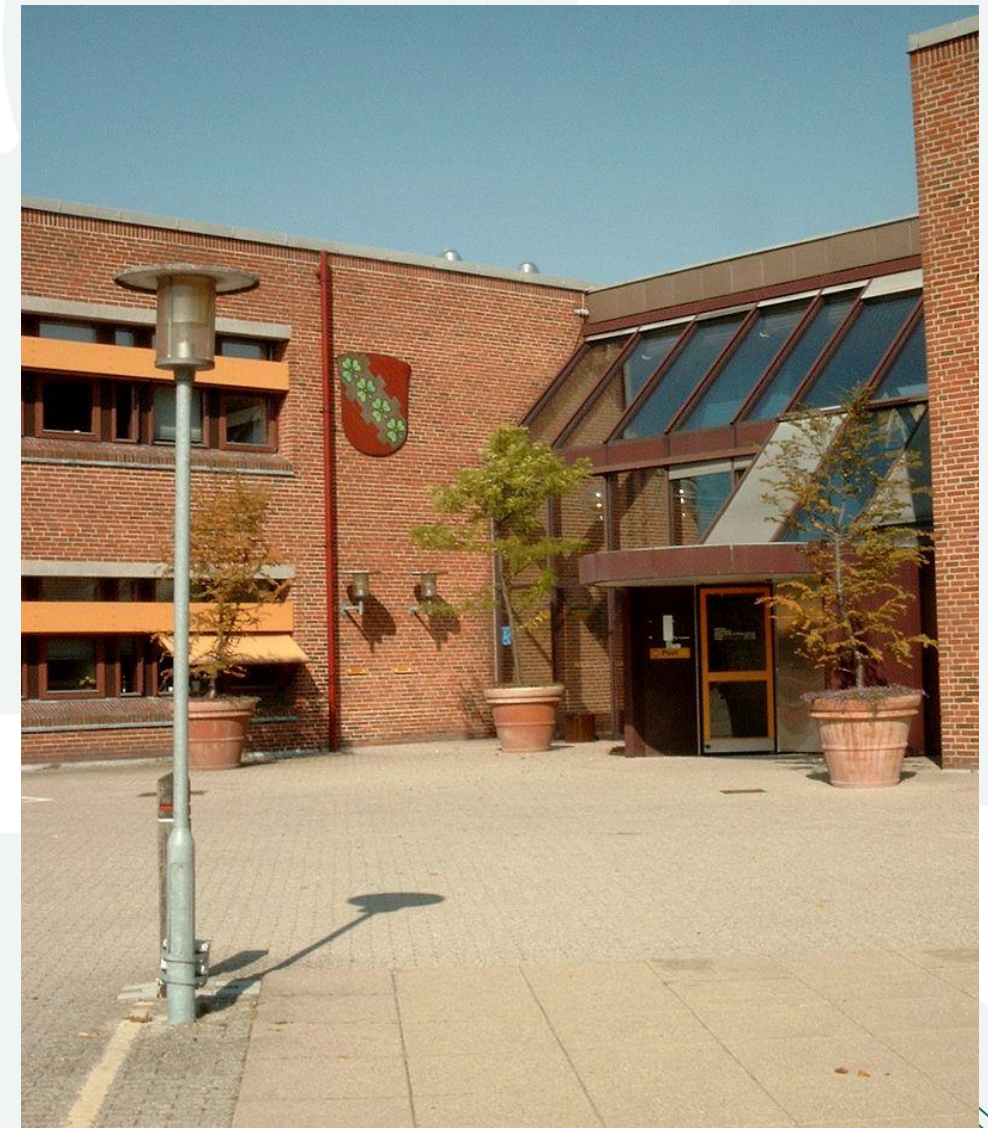




# Tender – City Hall Grounds

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- Project development agreement with right of first refusal
- Any sustainable criteria must be approved
- Ambitious project partner :)
- Higher fines if criteria not fulfilled!





# Tendering criteria

- 1) Resource mapping and selective demolition
- 2) 5% recycled or 10 reused components in communal building
- 3) Soil balance management plan





# New City Hall

- Demolition of apartment blocks earmarked concrete for us
- Idea of recycled concrete accepted very late in process
- Not a part of tendering material!
- Added afterwards at a meeting with the pre-qualified bidders
- Winning bidder took it into account





# New City Hall

- Result: 1088 tons crushed concrete as aggregate in the foundation
- 40 tons CO2 saved (reduced transport of soil and aggregate)
- First large public building in Denmark with a recycled concrete foundation





# What can you do?

[www.cityloops.eu](http://www.cityloops.eu)

[Recycling concrete -  
Instrument Roskilde -  
CO2 calculator.xlsx \(live.com\)](#)

Can be included in tender as evaluation parameter

**The most sustainable building is one you do not need to build**

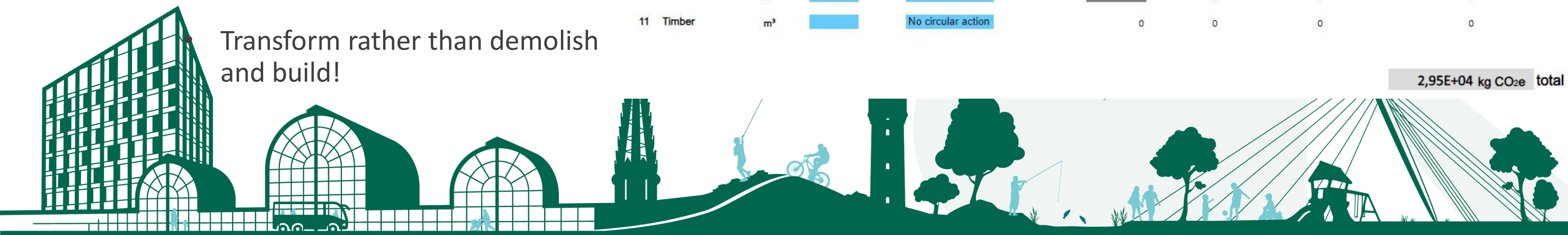
- Start by examining needs/question
- Use what you have, maintain, renovate

Transform rather than demolish and build!



Fraction	Unit	Amount	Circular action	Transport distance Km	Saving Potential Reuse	Saving Potential Recycling	Saving Potential in kg CO2e	Saving Potential Accumulated kg CO2e
1 Sand/Gravel	tons	<input type="text"/>	No circular action	<input type="text"/>	0	Not relevant	0	0
2 Soil	tons	<input type="text"/>	No circular action	<input type="text"/>	0	Not relevant	0	0
3 Concrete	m <sup>3</sup>	<input type="text" value="100"/>	Local Reuse		29485	91	29485	29485
4 Bricks	m <sup>2</sup>	<input type="text"/>	General Recycling		0	0	0	0
5 Glass/windows	m <sup>2</sup>	<input type="text"/>	No circular action		0	Not relevant	0	0
6 Gypsum	m <sup>2</sup>	<input type="text"/>	No circular action		Not relevant	0	0	0
7 Steel	kg	<input type="text"/>	No circular action		0	0	0	0
8 Aluminum	m <sup>2</sup>	<input type="text"/>	No circular action		0	0	0	0
9 Bitumen/Roofing	m <sup>2</sup>	<input type="text"/>	No circular action		Not relevant	0	0	0
10 Insulation	m <sup>3</sup>	<input type="text"/>	No circular action		Not relevant	0	0	0
11 Timber	m <sup>3</sup>	<input type="text"/>	No circular action		0	0	0	0

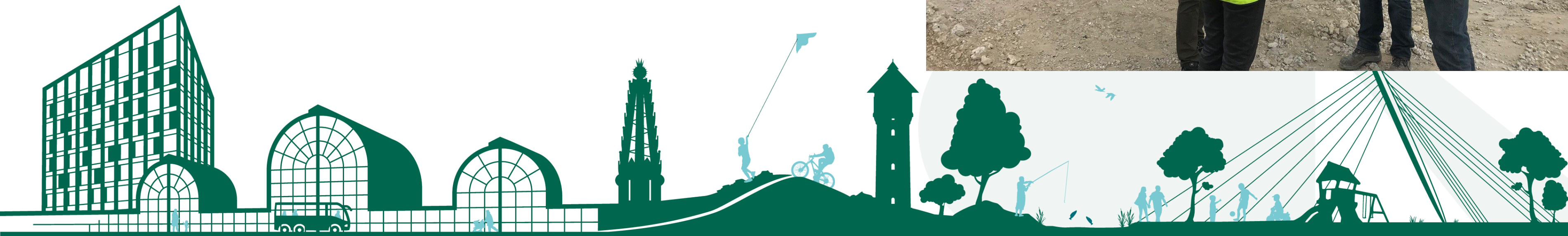
2,95E+04 kg CO2e total



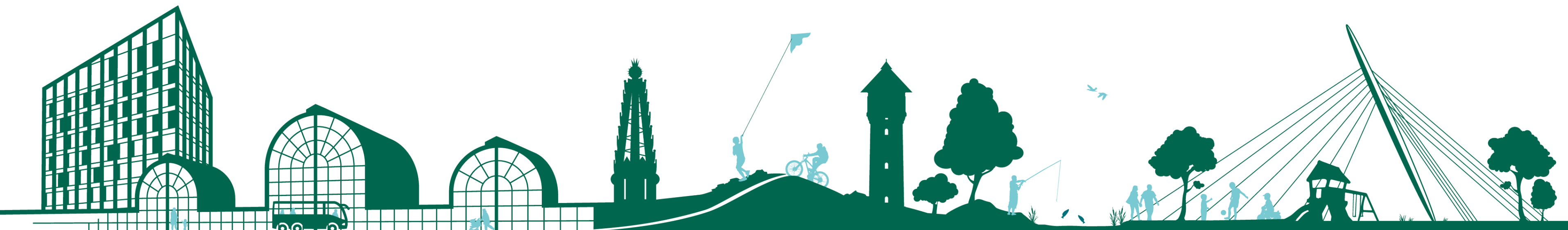


# What can you do? What worked for us?

- Dialogue and cooperation (across projects as well)
- It's never too late
- Be ambitious in tendering material – make ambition a parameter
- Be curious about each other's challenges, support where possible
- Clear, unambiguous responsibilities between actors







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**Questions?**

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