

Streetworks Designed Digitally

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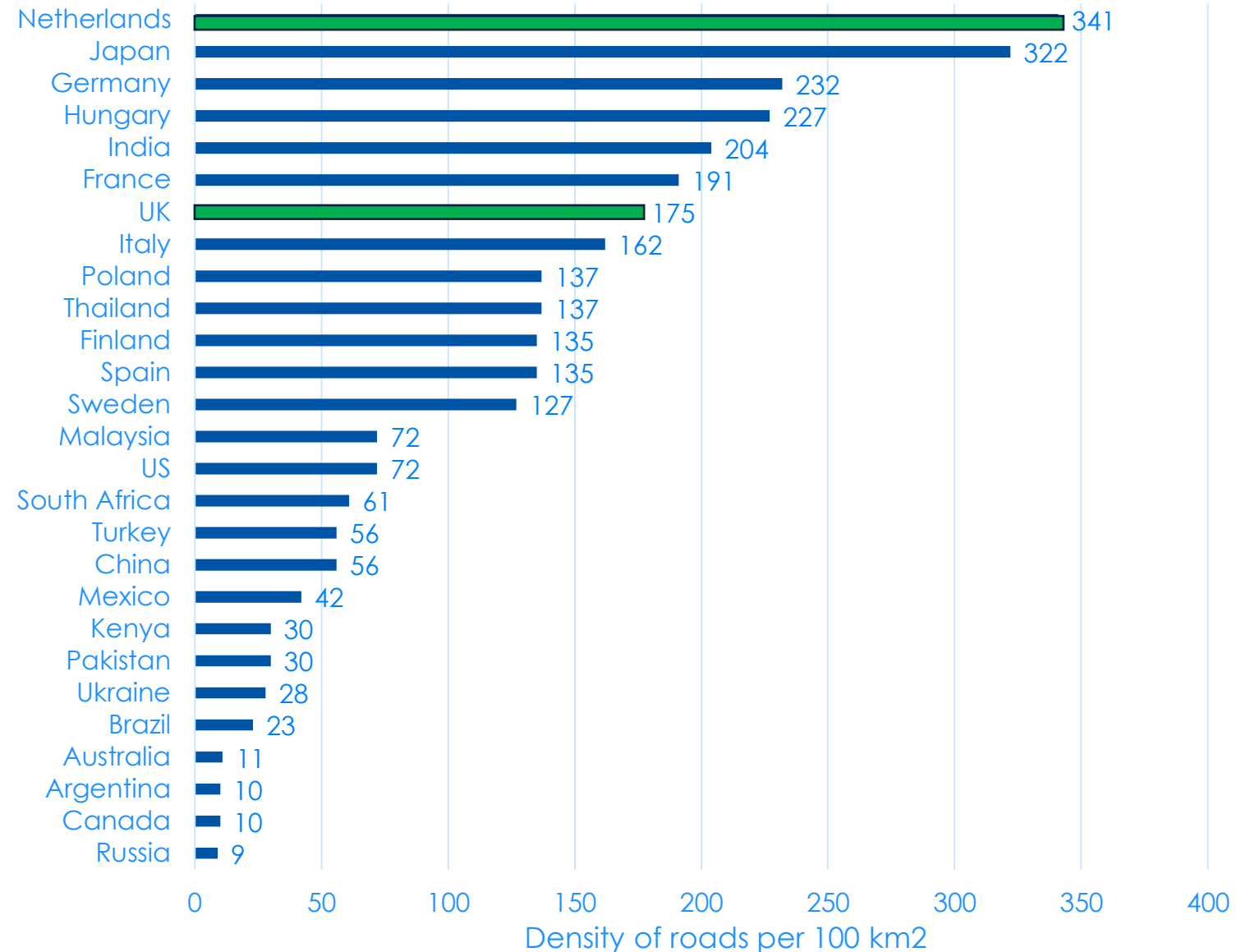
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Geo Data Driven Insights



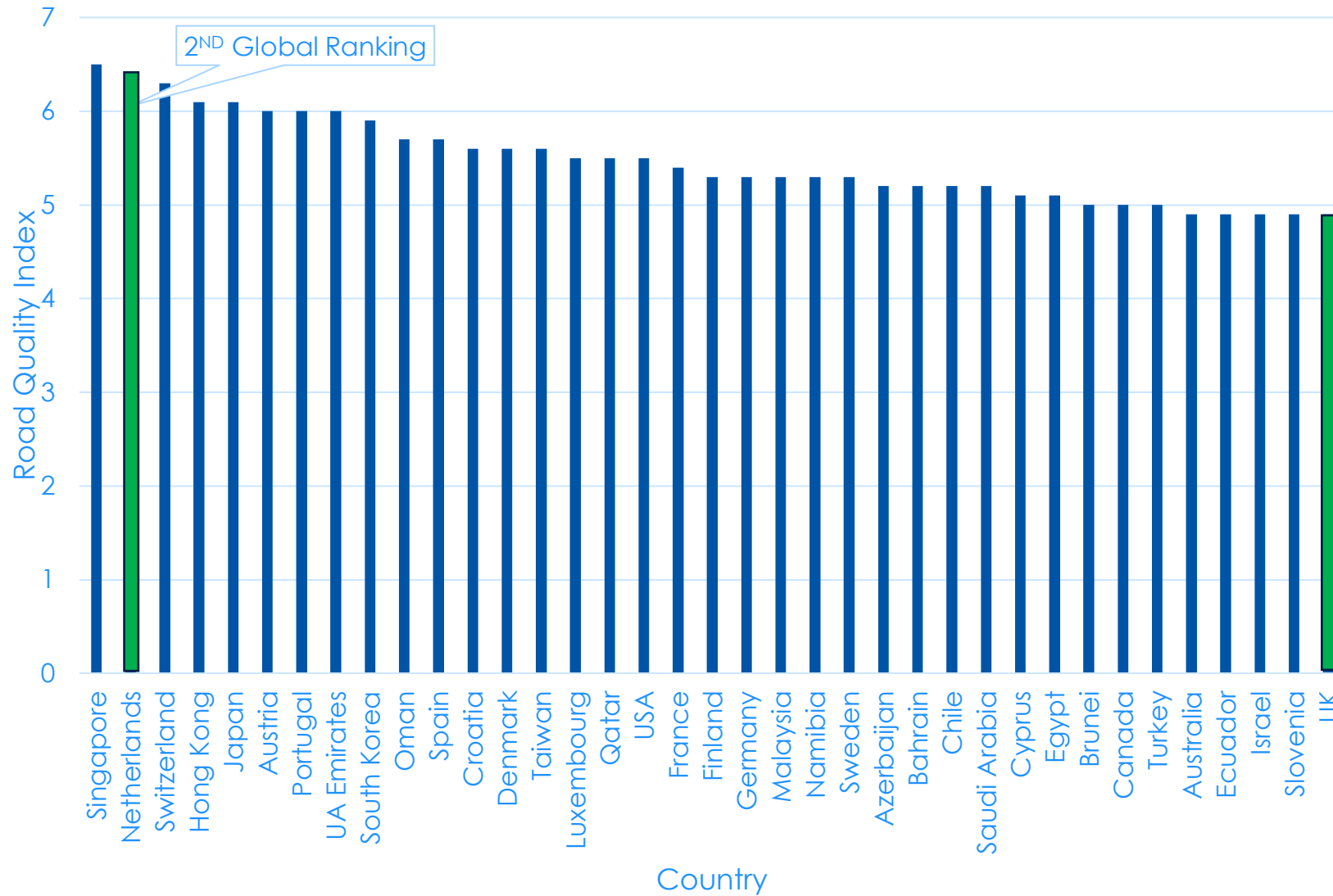
Netherlands has densest road network in the world....

- 139,000 km of Roads
- 200 billion KM of journeys per year



1. Source: Roadways The World Factbook

and is second globally in the Road Quality Index



1. Source: World Population Review. Road Quality Country Rankings

Highest level of streetworks in the country's history over next 5 years

“One third of the streets in Netherlands will need to be dug up.”

alliander

Source: Alliander
Annual Report 2023

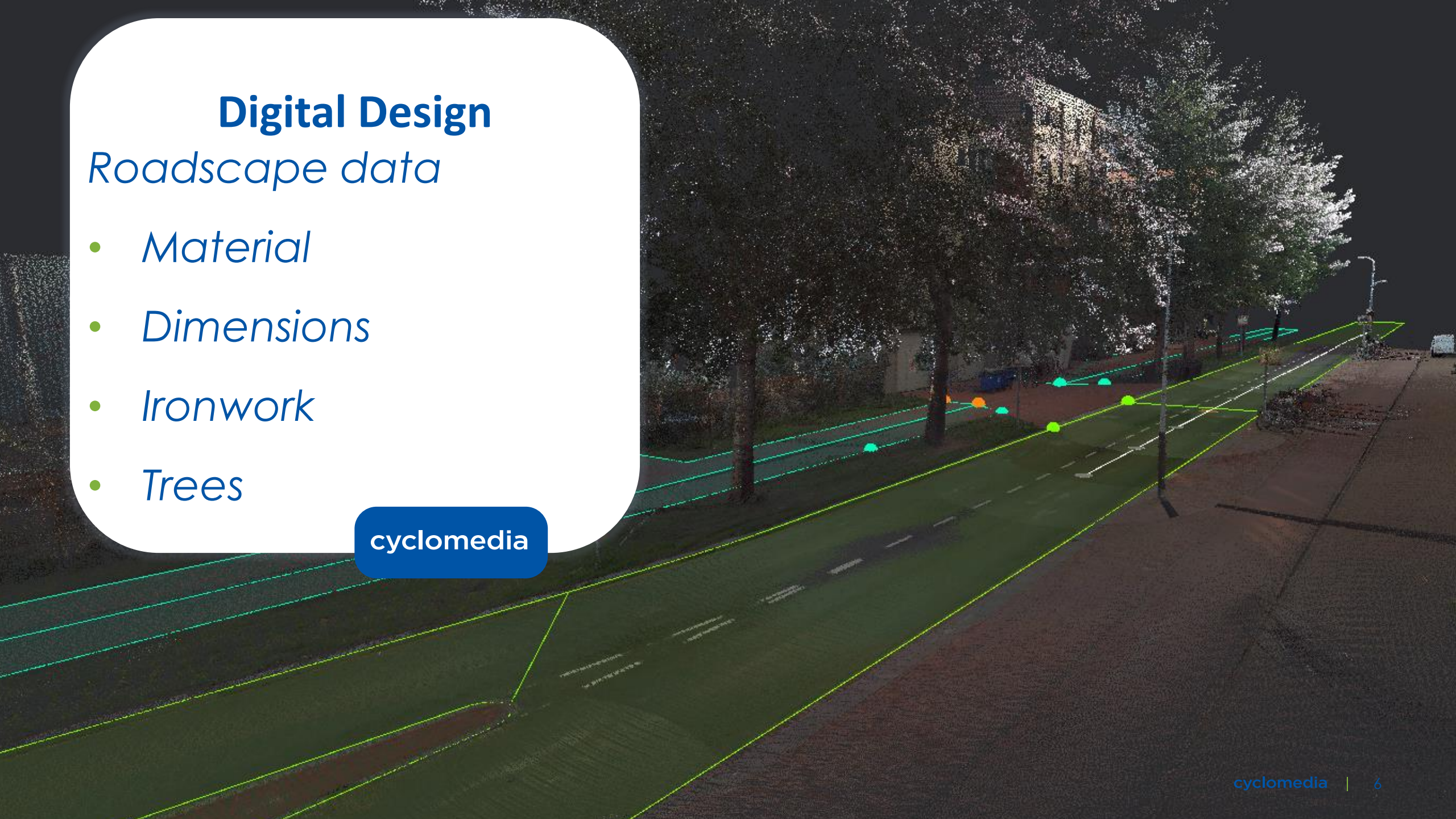


Digital Design

Roadscape data

- *Material*
- *Dimensions*
- *Ironwork*
- *Trees*

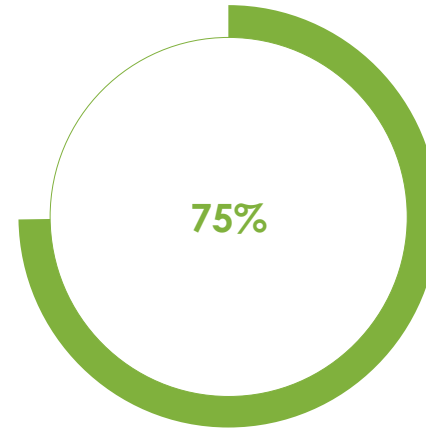
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- Improve approval rates of build requests
- Meet carbon targets



E-mobility planning & construction



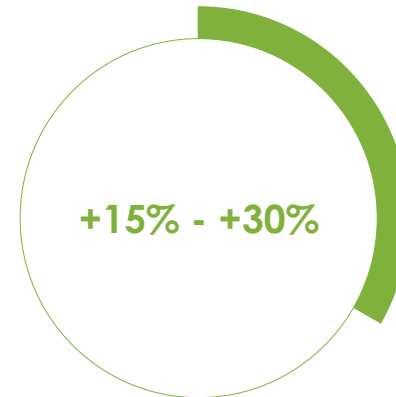
Time reduction

- Fewer site visits
- Reduction in network design time
- Reduction in rework because everybody is looking at the same picture

- Subcontractor auditing: material commissioning is reduced



QA of contracted works



Productivity

- Automation of design and engineering planning stages
- Validation of completed work
- Improve customer expectations of project delivery

Thank you



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