Decision making in a decarbonising world:

Designing intelligent, efficient and agile mining for the future

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Digital + Electric = **Sustainable**

For Efficiency | For Decarbonization | Green and Smart Energy

Internal

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Why do this matter? Why is it good for business?

70%

Stated that aggressive decarbonisation is a high or very high priority in driving the allocation of capital

59%

Expect mining companies they invest in to be market leaders in aggressively pursuing decarbonisation

63%

Would be willing to divest or avoid investing in mining companies that are not pursuing sufficient decarbonisation activities

But…. By far the top initiatives that have the greatest impact on mining company value are emerging technology & digital transformation

Source: Accenture, 2021

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Internal

Sustainability x Digital = Industry leading performance

Source: IDC

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The ask of mining companies = is massive

> Safety

> Productivity

> Efficiency

> Accelerating critical minerals production

> Decarbonisation

Requires:
A change in thinking & approach

Success will be defined by how key questions are tackled

Operations

- What is sustainable growth?
- Implication of carbon footprint?
- Long term optimisation: cost, carbon impact and profit?
- Recycling – finally a choice?

Capital Projects

- Portfolio choices vs. decarb.
- Decarbonisation design philosophy?
- Managing far greater complexity, but still iterating more quickly to name plate?

What Change is Required?

- An integrated decision-making environment
- A carbon-footprint optimisation philosophy
- Scaled through a digital platform approach
- Enabled by a data foundation

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Integrated operating model will deliver a step change in sustainability, profitability and efficiency

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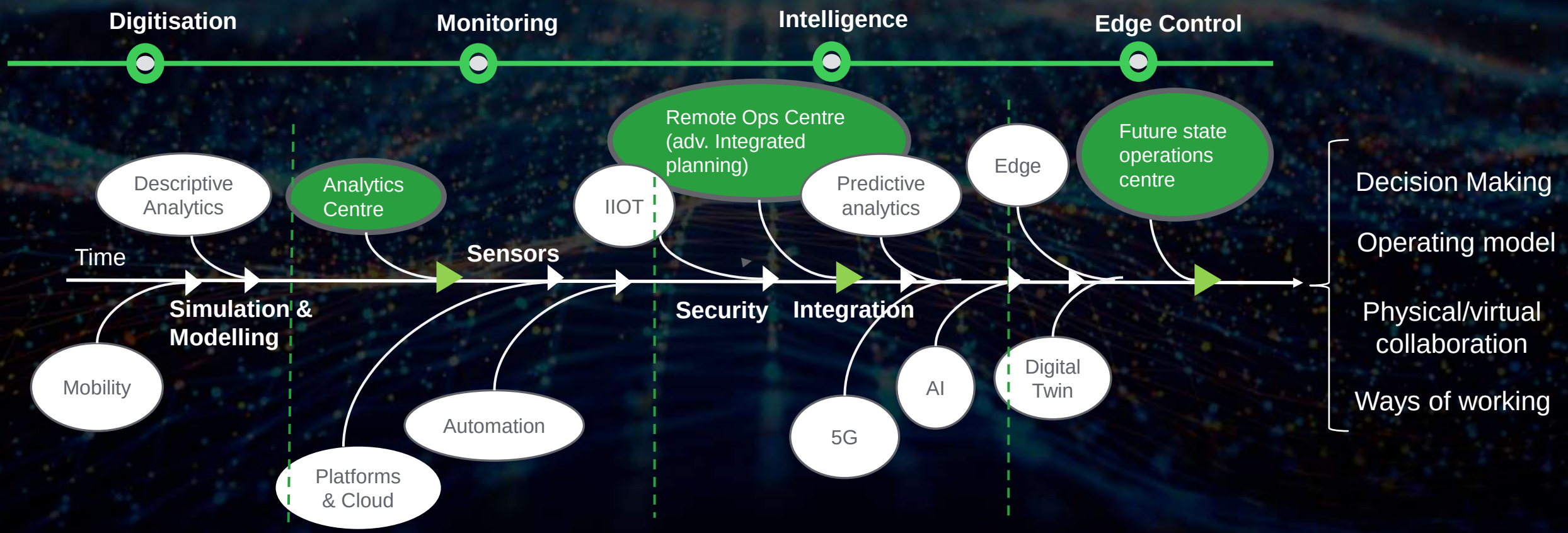
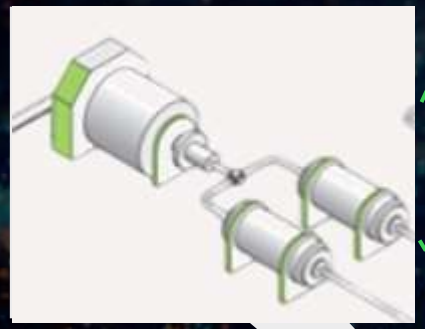
A transformed mining operations environment is required

To better capture data, reduce carbon emissions and lower carbon footprint



The data model will drive interoperability and integration

Asset



Objects & Asset Model

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Business models for decarbonisation will requirement partnership

Exploration → Mining → Processing → Supply Chain → Customer/ Manufacturing

Electrification - Focus on the demand side of the equation
- A complex supply system
- Managing resources and minimising waste, especially energy

+

Data & digital – Focus on enabling interoperability
- Contextual, informed decision making at pace
- To manage high complexity and long term optimisation

+

Business model implications – Focus on: Delivering sustainable growth
- Ability to dynamically optimise for profit, long term cost and impact

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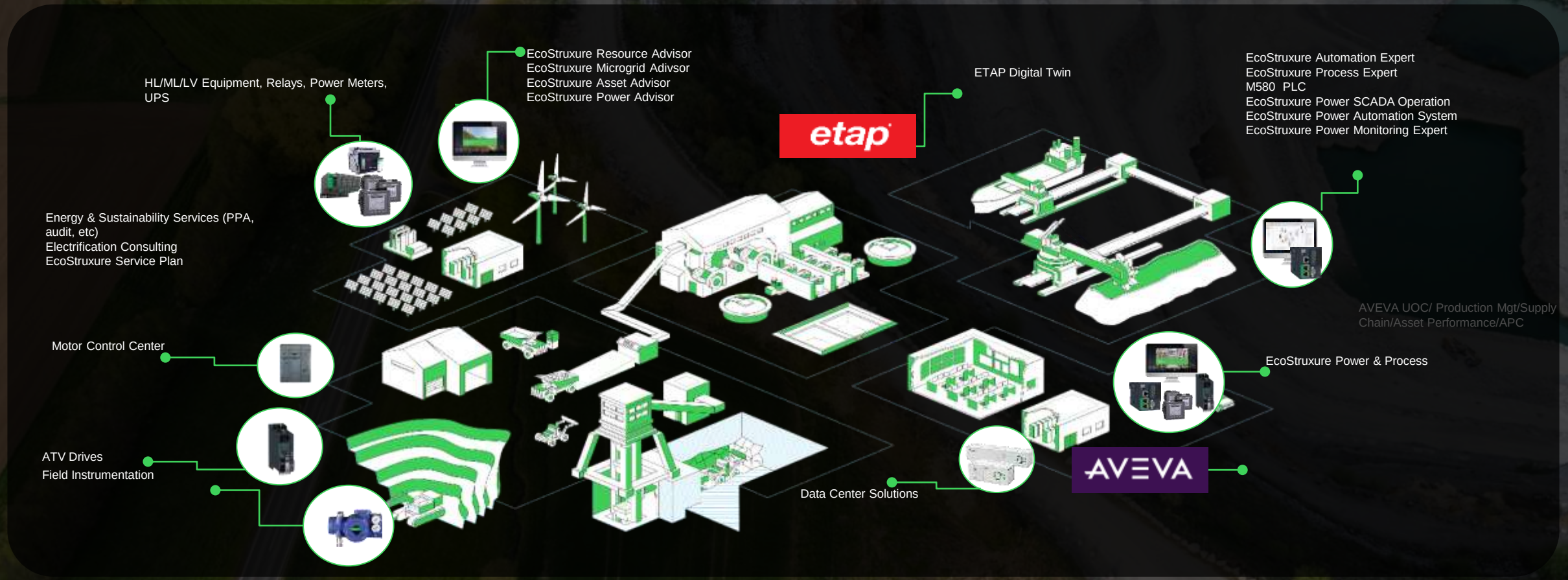
Schneider Electric and AVEVA bring capabilities across industrial automation, energy management and software to manage the change



We can help to:

- **Double** digit growth in productivity
- **10%** energy efficiency improvement
- **+20%** value chain efficiency
- Up to **80%** average emissions reduction

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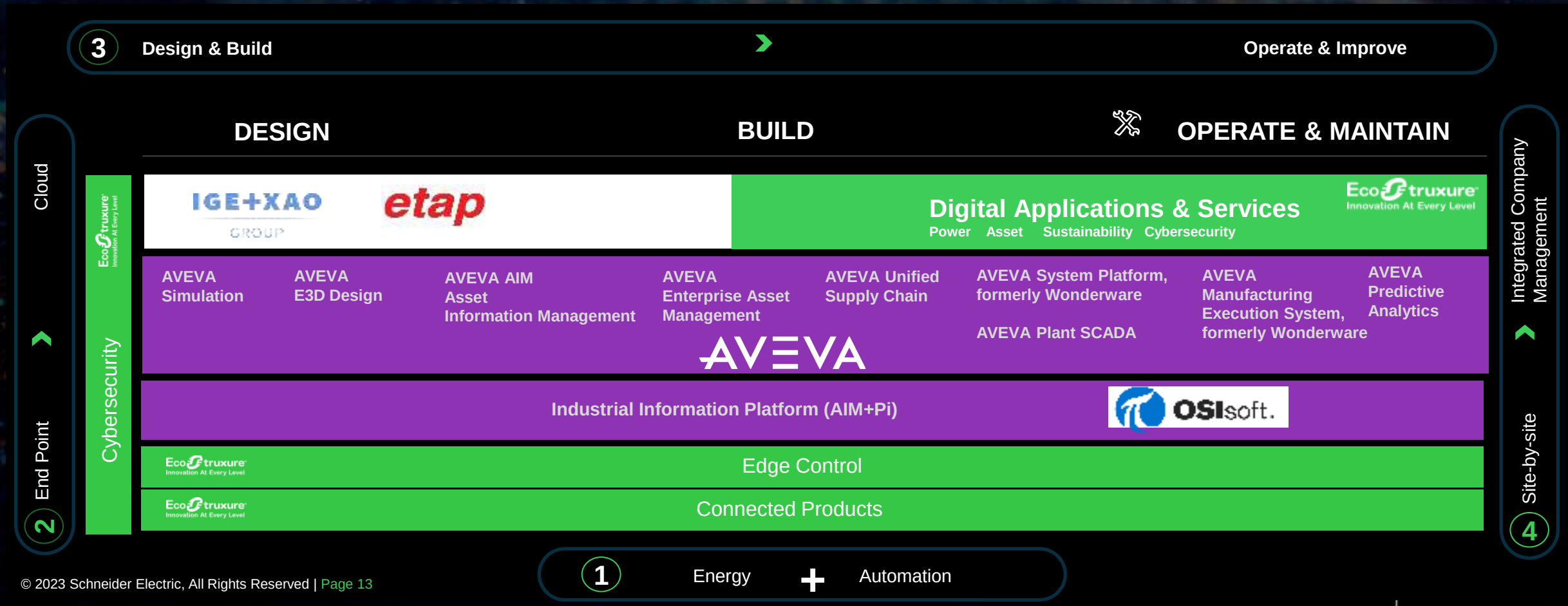
SE + AVEVA: Connecting field data to the enterprise systems and Integrated Operations



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The future is..

A more electrified world

Sustainability as competitive advantage

Rapid tech advances

A more automated, connected and digital world

Green Raw Materials

Partnerships and collaboration

Evolution to revolution

Decarbonisation Decisions

- More electric
- More sustainable
- More collaborative
- Digitally transformed

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Thank You!

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