Wednesday, February 10, 2021

Connected Places Catapult Supporting Climate Change Innovation

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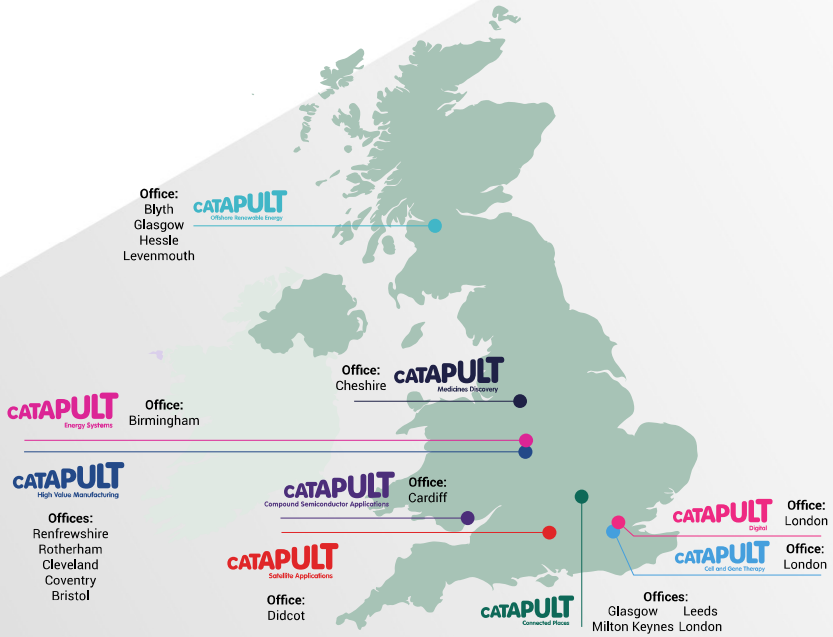
CATAPULT
Connected Places

The CP Catapult



1 of 9 Catapult Centres in UK

Growth Through Innovation:

160 Technical & Market Experts

3000 Innovating SMEs

50 Leading Universities

4 Offices Across UK

3 International Programmes

Connected Places Catapult

Our Role

1. Increasing the SUPPLY of innovative products and services that meet market demand
2. Boosting DEMAND for innovation from intelligent customers

3. Identifying new areas for MARKET MAKING and DISRUPTION

De-risk the adoption of Innovative Products and Services for:

Innovators:

- SMEs
- Academia

Government:

- Agencies
- Local Authorities
- Central Government

Investors:

- Corporate
- VCs
- Foreign and Domestic

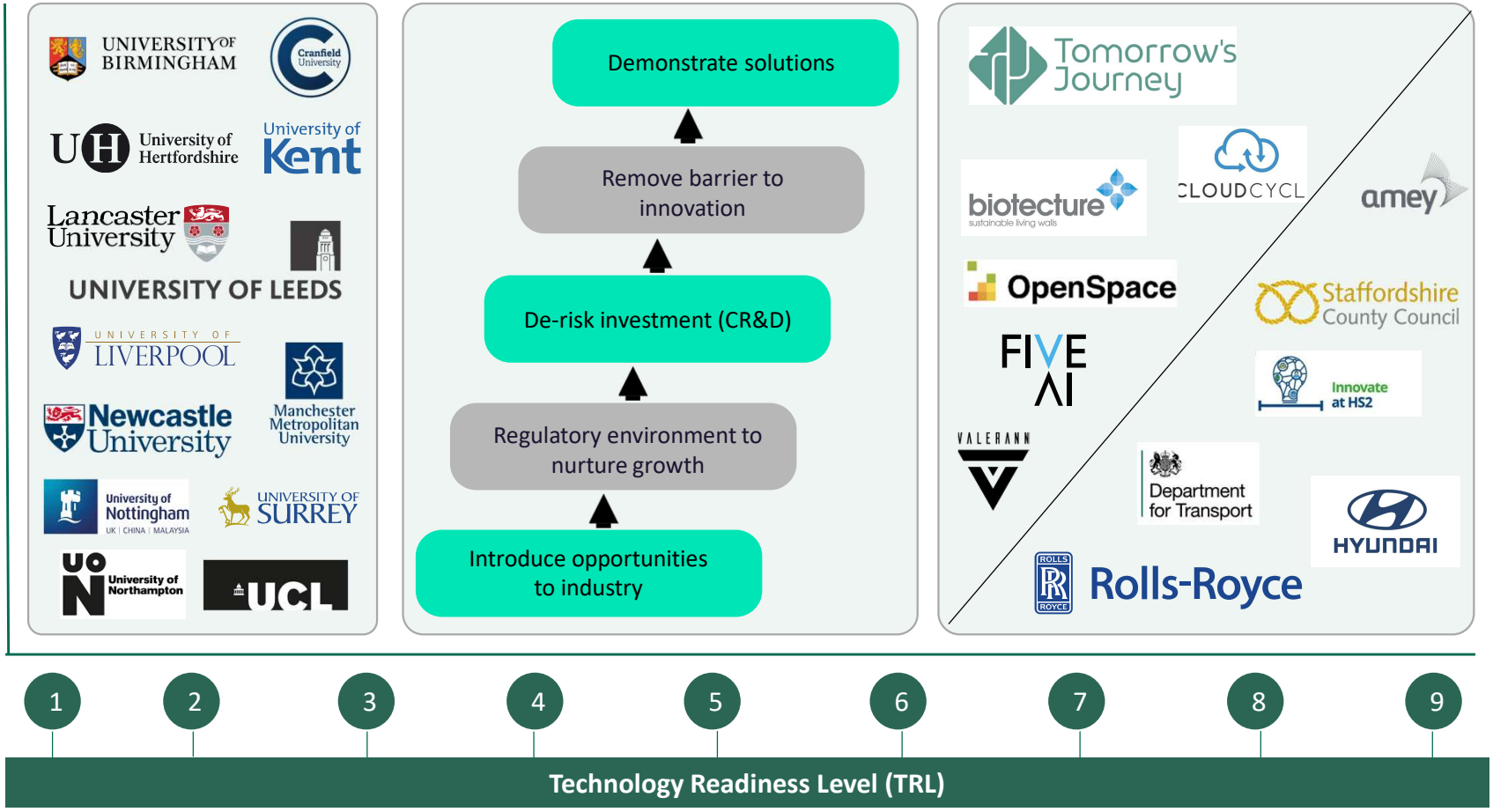
Industry:

- Large market incumbents
- New market entrants

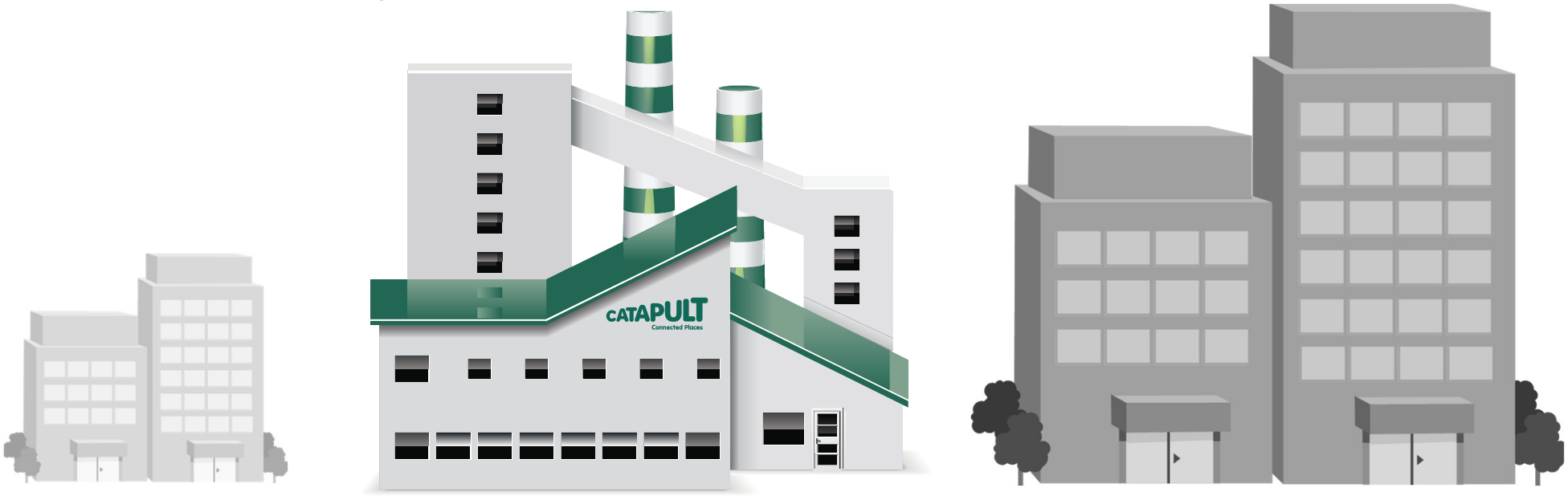
Why Grow SMEs?

SME growth can lead to innovative outputs which can benefit regions economically, socially, and environmentally.

The innovation ecosystem

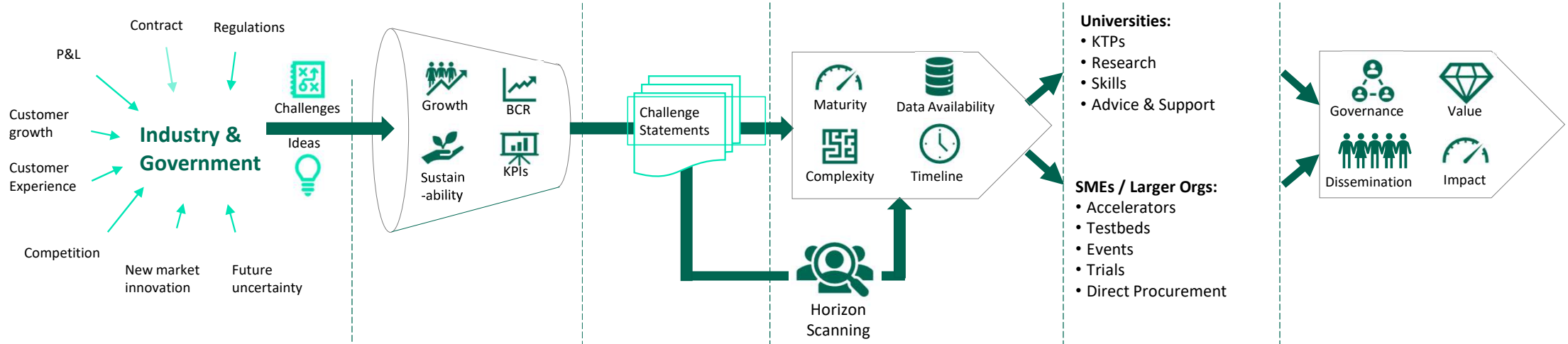


Innovation factory



Programmatic Innovation that removes market barriers to
innovation for the benefit of SME and academic innovators and government and industry.

How the Innovation Factory Works



Catapult activities to support Industry

Identify Need for Innovation	Prioritisation	Challenge statements	Scan market and select optimum source of innovation	Procurement / Partner Selection	Innovation Delivery
• Holding challenge workshops to identify challenges faced • Identifying new market innovation • Competitor (multi-modal) assessment • Customer surveys and market research	• Prioritisation of ideas and challenges based on business imperatives. • Economic value assessment	• Creating detailed challenge statements	• Horizon scans to look at what technology is available and in research to meet challenges. • Assessing best route to innovation based on this research and business needs.	• Brokerage to our network of over 375 academics and 2500 SMEs • Reach into extended networks through industry partners • Procurement support	• Project Management to deliver projects and technical guidance. • Quality assurance throughout the project to ensure quality and value outcomes.

Innovation is structured around the delivery of a future place ecosystem

SIMULATE LIVE LAB
INCUBATION | PILOTING | SCALE UP

Live-Lab Management **Amey** manage programme with **Connected Places Catapult** delivering a bespoke accelerator with support from **Keele University** approach to assessing the location, size and constitution of Mobility hubs within Staffordshire

Mobility Hub strategy and feasibility Multi-phase approach to assessing the location, size and constitution of Mobility hubs across rural counties

Moss-wall Carbon Sink Developing the UK's first IoT Connected Moss 'carbon sink' to clean the air and store as much carbon as 40k trees, developed alongside **FortyTwo** and **Oxfordshire County Council**

Pop-up Electric Charging Hubs
UK first trial of new 'pop-up' charging units alongside partners **Urban Electric**

Active Greenwall Developing the UK's first active airflow Greenwall to protect school playgrounds from high pollution areas alongside **Biotecture**

Electric Car Share UK first trial of ground-breaking new mini electric vehicles; the 'BeeAnywhere' developed by UK based auto manufacturer **MEV**

Deploying water-based air filtration technology working with ISCLEANAIR on the only filterless air purification technology on the market

Pollution monitoring across 4 locations including 3 AQMAs
air quality monitoring test-beds to test the efficacy of the solutions deployed in SIMULATE alongside **EarthSense** and **Now Wireless**

E-Scooter deployment and monitoring two e-scooter providers deploying over 200 scooters across rural and urban settings in Staffordshire with **ZWINGS** and **Ginger**

Fibre optic traffic management
working alongside Fotech to Use fibre optic cabling to monitor traffic flow for intelligent traffic signal management deployment of

Demand Responsive Transport
simulations across the county will feed into a DRT rollout in Staffordshire

Case Study

SIMULATE Live-Labs Accelerator Programme

SIMULATE LIVE LAB

APPLICATIONS
Over 125

LIVE TEST-BED IN STAFFORDSHIRE

CORPORATE PARTNERS **4**

Commercial Trials Undertaken

10 funded

10 SMEs selected

14 Contracts awarded

biotecture

Fotech solutions

GINGER

ISCLEANAIR® BREATHE YOUR LIFE

nowwireless

Liftango

fortytwo

ZWINGS

mev Manchester Electric Vehicles

urban | electric

ADEPT LIVELABS

Staffordshire County Council

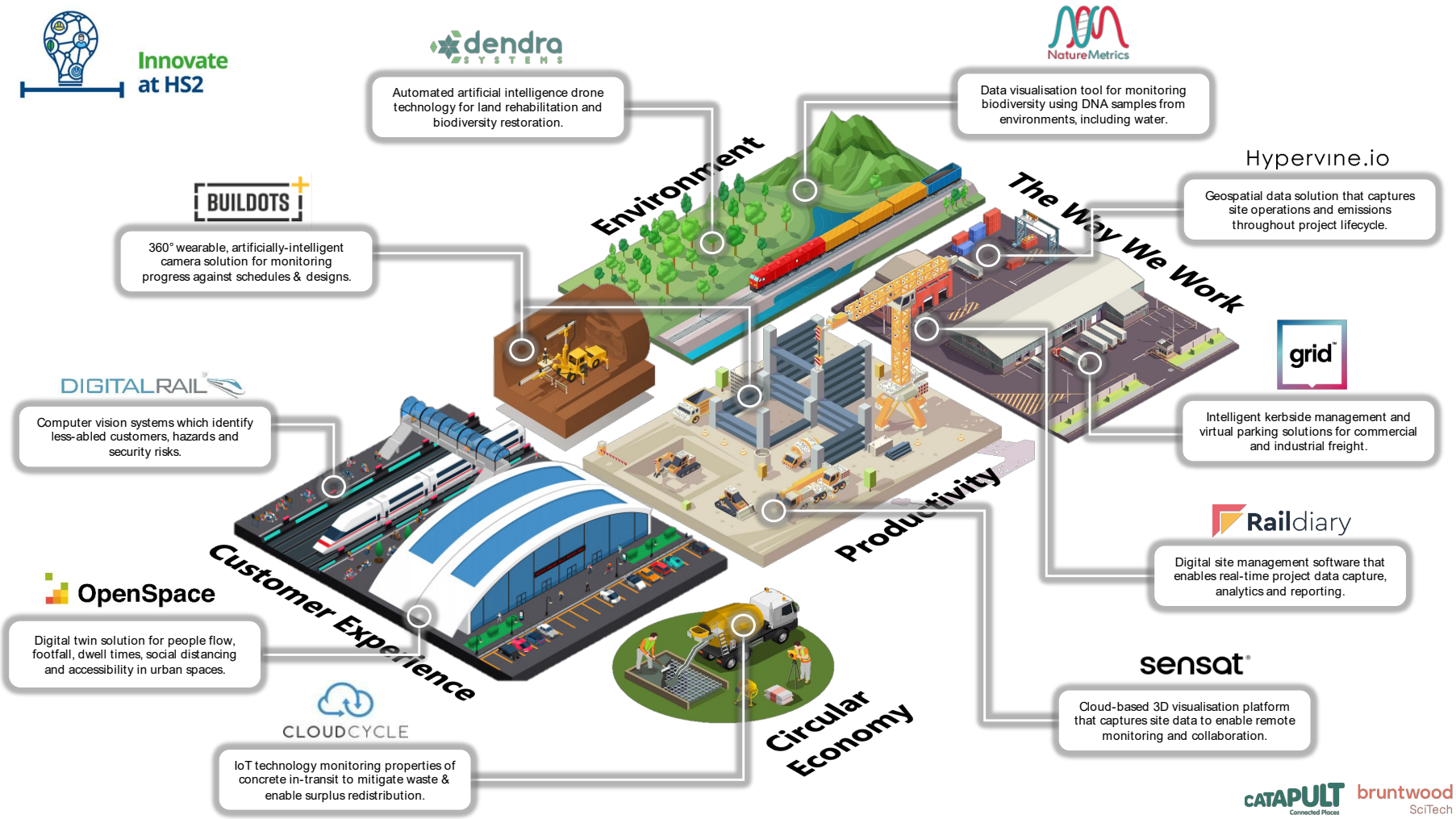
amey

CATAPULT Connected Places

Keele University

HS2 Accelerator Programme

Innovate at HS2



Case Study

HS2 Accelerator Programme

Innovate at HS2

APPLICATIONS

Over 220

850K raised in CR&D funding

£

Introductions to Tier 1s / Joint Ventures **37**

Commercial Trials Funded

4

10 SMEs selected

75 CPC Technical Engagements

BUILDOTS

sensat®

NatureMetrics
DNA-Based Monitoring

dendra SYSTEMS

CLOUDCYCLE

Hypervine.io

OpenSpace

Raildiary

DIGITALRAIL

grid

SIMULATE LIVE LAB

Innovate at HS2

https://www.biotecture.uk.com/

https://www.iscleanair.com/

https://www.fotech.com/

https://www.dendra.io/

https://www.cloudcycle.com/

https://gridsmartercities.com/

Thank you

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