



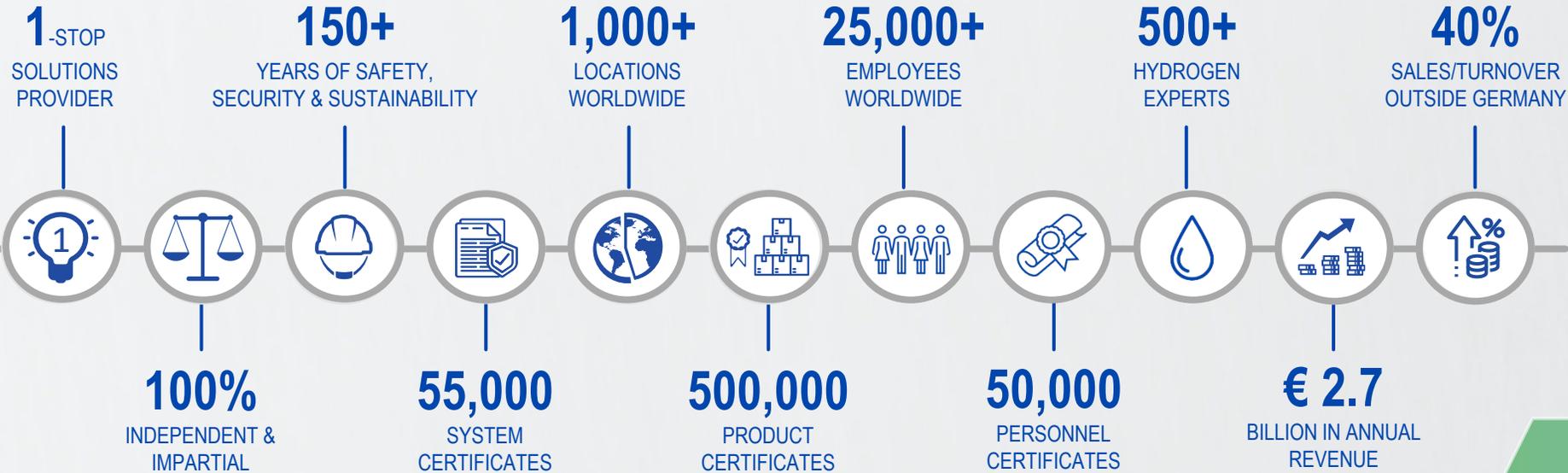
Hydrogen as key element for decarbonization

TÜV SÜD approach and service portfolio

Johannesburg, 2023-09-11

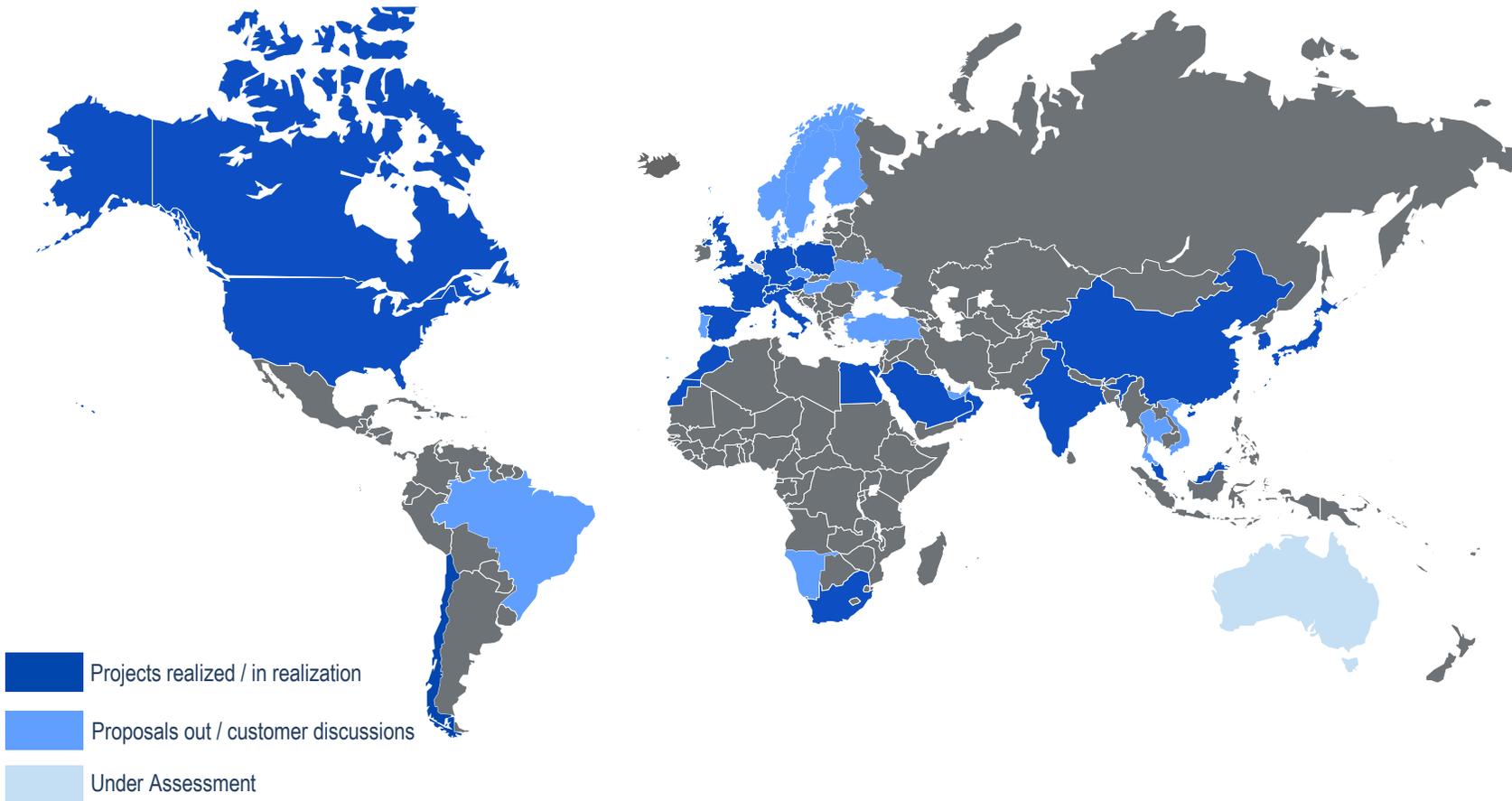
**Add value.
Inspire trust.**

TÜV SÜD: your partner of excellence – worldwide



WE ARE PIONEERS.
Green hydrogen certification has been part of TÜV SÜD's portfolio already since 2011.

TÜV SÜD Hydrogen Story – Our network to support companies safely access the hydrogen market



~ 300 **experts** with relevant hydrogen know-how and strongly growing



Hydrogen activities in >25 countries from strategy until operation



New services based on market needs (e.g. green / low carbon H₂, H₂-ready)



Active memberships in e.g. Hydrogen Council, Hydrogen Europe, Irena and DII



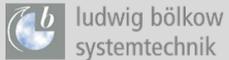
Early project support: Two subsidiaries focusing on green energy consulting

TÜV SÜD South Africa Development Timeline



- 2010 ● Founding of **TÜV SÜD South Africa (Pty) Ltd**
- 2010 ● Acquisition of **AVTS Roadworthy Stations** in the Western Cape in Roadworthy Inspections & Vehicle Assessments
- 2011 ● Start of our **Management Services Division**
- 2011 ● Acquisition of **Pro-Tec Boiler Inspection and NDT Services (TÜV SÜD Pro-Tec)** - nondestructive material testing and inspection for energy industry
- 2012 ● Acquisition of **WAC Projects (now TÜV SÜD Real Estate)**, independent testing and consulting services for lift systems for real estate industry
- 2014 ● Restructuring of South African operations
- 2015 ● TÜV SUD South Africa sells a 26% share to **Kapela Group** to ensure compliance to BEE and optimize business structures.
- 2017 ● Management buy-out of **TÜV SÜD Real Estate**
- 2018 ● **TÜV SÜD Inspection Authority** SANAS Accreditation , DoL Approval
- 2022 ● **TÜV SÜD driving business growth and service expansion into Hydrogen and Renewable Energy**

The TÜV SÜD H₂ ecosystem – providing guidance from strategy to operation



The well established consulting company LBST has been providing profound insights into hydrogen market developments, technology, and economics for almost 40 years.

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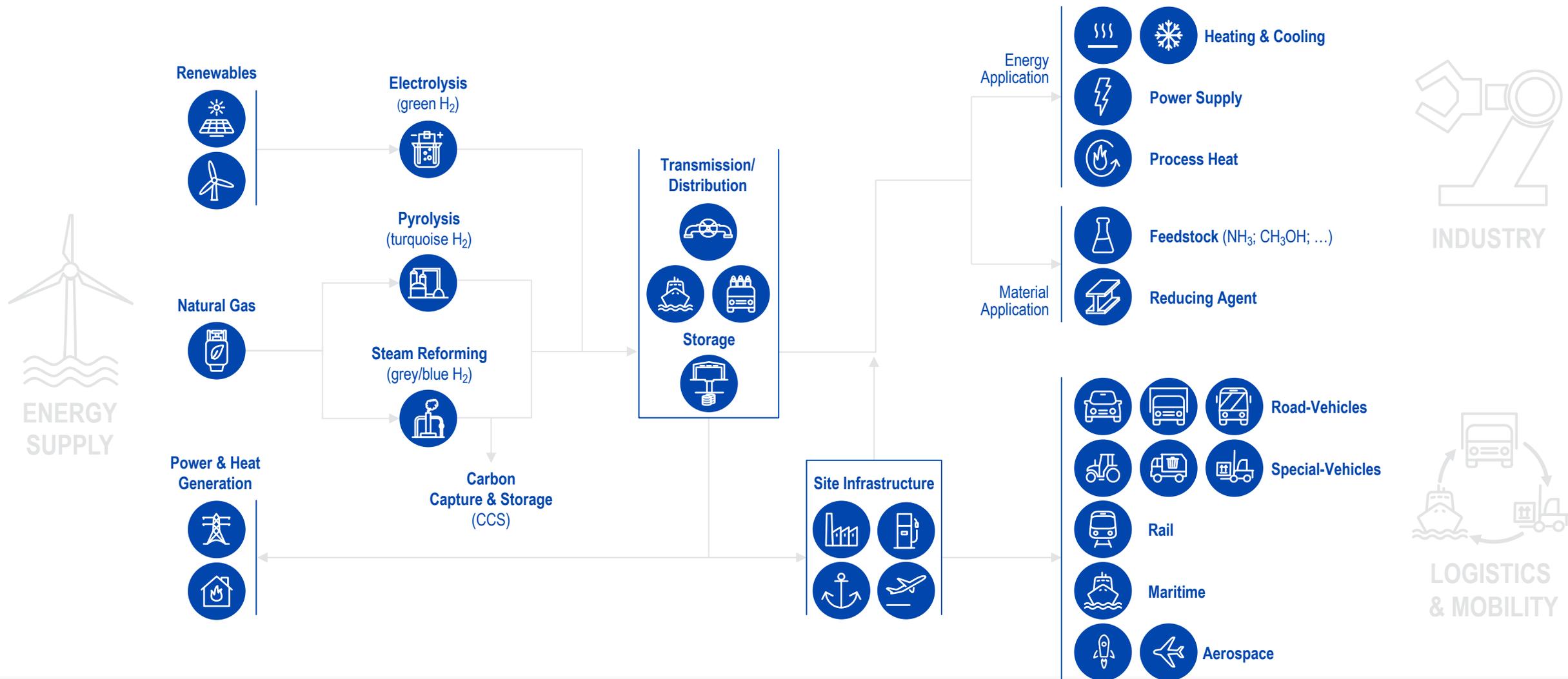
A new Joint Venture (OGE, TÜV SÜD, Horváth) provides consulting services along the project lifecycle. It supports, accompanies and navigates the customer's projects in the complex H₂ market.



Many years of experience with H₂ technologies in various industries.
Strong base of experts and engineers for H₂ applications along the H₂ value chain.

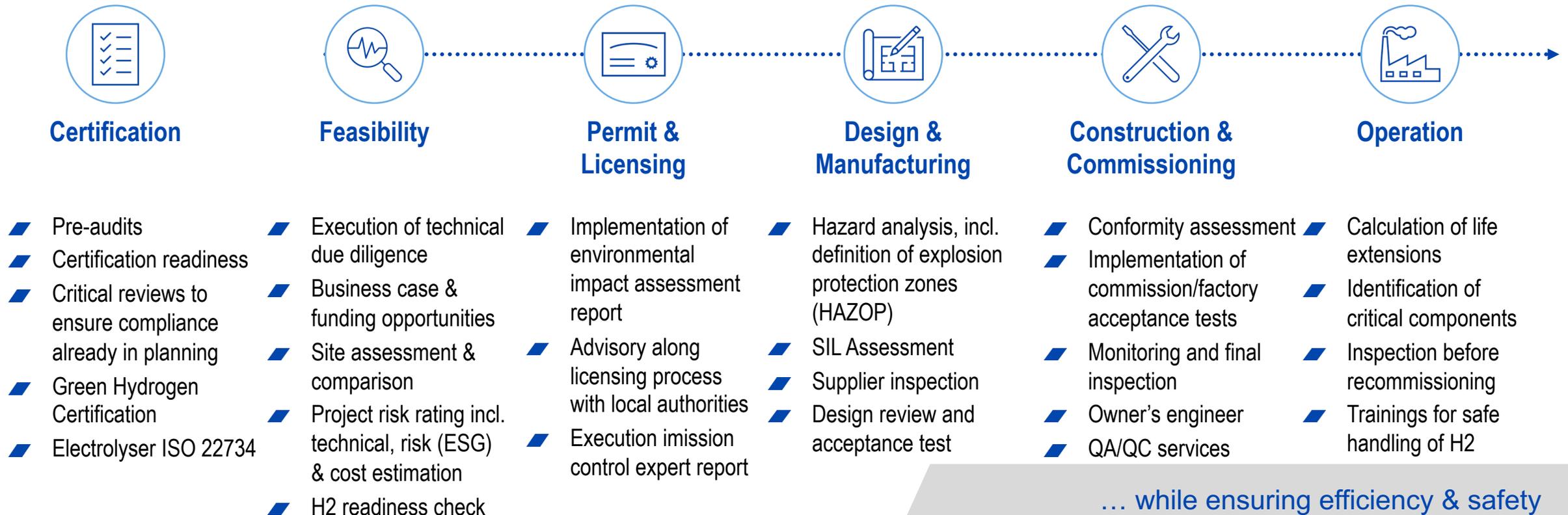
Trusted partners along the entire project lifecycle ensuring efficiency & safety

TÜV SÜD Hydrogen services along the whole H₂-Value Chain



Ensuring Safety and Efficiency in hydrogen projects with TÜV SÜD

We support you along the entire project lifecycle ...



... while ensuring efficiency & safety



Thank you

TÜV SÜD South Africa (Pty) Ltd

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