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National Stock Exchange of India Limited
Exchange Plaza, Bandra Kurla Complex,
Mumbai - 400051
Symbol - TCS

BSE Limited
P. J. Towers, Dalal Street,
Mumbai -400001
Scrip Code No. 532540 (BSE)

Dear Sirs,

We are sending herewith copy of the Press Release titled “**TCS and Yale University Develop Secure, Private Off-Grid Networking Platform Using Blockchain**” which will be disseminated shortly.

The Press release is self-explanatory.

Thanking you,

Yours faithfully,
For **Tata Consultancy Services Limited**

A handwritten signature in blue ink, appearing to read 'Rajendra', with a horizontal line underneath.

Rajendra Moholkar
Company Secretary

TATA CONSULTANCY SERVICES

TATA Consultancy Services Limited

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TCS and Yale University Develop Secure, Private Off-Grid Networking Platform Using Blockchain

Tata Consultancy Services' New Framework to Provide Trusted Exchanges within a Decentralized Framework

NEW YORK | MUMBAI, September 23, 2020: [Tata Consultancy Services](#) (TCS), (BSE: 532540, NSE: TCS), a leading global IT services, consulting, and business solutions organization, and Yale University, jointly announced the launch of a new framework that could help ensure privacy and trust in peer-to-peer digital networks. This would be a critical element in enhancing blockchain solutions for greater adoption by consumers.

The online exchange of money and data is burdened by numerous challenges, including delays, middlemen, lack of trust, and high costs. Despite the use of blockchain, the current crop of solutions does not fully address the issues faced by businesses and individuals. Some frameworks lack adequate trust, while others rely on centralized management that prevents users from maintaining control of their own data.

To address this challenge, Yale University and TCS collaborated to create a new architecture, making use of decentralized storage provided by Hyperledger Fabric and the IPFS peer-to-peer network, as well as decentralized identities supported by Hyperledger Aries and Indy. This framework is the first to combine the scalability and identity verification benefits of private blockchains with the trust and decentralization provided by public blockchains. Additionally, it provides the ability to share data and services through a fully decentralized digital ecosystem that enables user control of data.

TCS developed the identity component, while Yale researchers built the core service and integrated the software components. The teams then evaluated the proof of concept, testing both its security and performance to support off-grid decentralized applications. The result is a platform that offers trusted exchanges within a decentralized framework.

*"Existing technologies have forced users to choose between trust and maintaining control over their own data," said **Professor Leandros Tassioulas, Yale University**. "But this first-of-its-kind platform we've created with TCS can establish trust while upholding user control of data. It's a platform that will enable markets where they weren't previously possible and give people sovereignty over their own data once again."*

*"We believe that decentralized identity is a compelling use case for blockchain technology, and identity platforms and related solutions are already part of our platform and solution strategy," said **Lakshminarasimhan (Lakshmi) Srinivasan, Global Head, Blockchain Services, TCS**. "We are delighted to work with Yale University in proving that use of decentralized technologies can improve security of community networks while preserving individual privacy."*

This collaborative project was supported through the ongoing [alliance](#) between the Tata Group, TCS and Yale University. *"This work is another example of a successful, impactful, mutually beneficial collaboration between Yale, the Tata Group and TCS, as an outcome of a successful alliance established in 2016," said **Yale Professor Nicholas Christakis, Co-Chair, Tata-Yale Alliance**. "It is wonderful to see that this fruitful collaboration continues to produce valuable solutions to today's important problems."*

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that has been partnering with many of the world's largest businesses in their transformation journeys for over 50 years. TCS offers a consulting-led, cognitive powered, integrated portfolio of business, technology and engineering services and solutions. This is delivered through its unique Location Independent Agile™ delivery model, recognized as a benchmark of excellence in software development.

A part of the Tata group, India's largest multinational business group, TCS has over 443,000 of the world's best-trained consultants in 46 countries. The company generated consolidated revenues of US \$22 billion in the fiscal year ended March 31, 2020, and is listed on the BSE (formerly Bombay Stock Exchange) and the NSE (National Stock Exchange) in India. TCS' proactive stance on climate change and award-winning work with communities across the world have earned it a place in leading sustainability indices such as the Dow Jones Sustainability Index (DJSI), MSCI Global Sustainability Index and the FTSE4Good Emerging Index. For more information, visit us at www.tcs.com.

For TCS global news, follow [@TCS_News](https://twitter.com/TCS_News).

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