

oneM2M Industry Day - Sept 20, 2017

“Standards should facilitate interoperability, support fair trade and fair competition, increase user, consumer and Government confidence and stimulate innovation”

- Karen Bartleson – IEEE President, former IEEE-SA President in her book “Ten Commandments for Effective Standards”



TECHNOLOGY to leapfrog socio-economic development – INDIA specific challenges

	AREA (million Sq Km)	POPULATION (in Billion)	GDP nominal (Trillion \$)	Per capita PPP (k\$)	Power consumption (Trillion KWh/yr)	Average Watts/ person
NORTH AMERICA	24.71	0.579	38.1	57.3 - USA	3913 - USA	1378 (17.62) - USA
EUROPE	10.18	0.743	19.07	42.5 - UK	2771 - EU	651 -EU
NA + Europe	34.89	1.323	57.0			
CHINA	9.597	1.379	11.2	14.6	5920	492 (6.52)
INDIA	3.287	1.324	2.64	6.7	1001	87 (1.45)

GOVERNMENT
National priorities & local challenges

INDUSTRY
What is happening Globally?

ACADEMIA
Potential of TECHNOLOGY

START-UPS
India Centric Solutions

USERS
What India really needs ?

**COLLABORATION
PLATFORM &
OPEN FORUM**

Pre- Standardisation
Strengthening the
Standards
Framework

Govt. /DoT Initiatives :
5G Forum / National Telecom
Policy
TEC/ TCOE Collaborations
TRAI Consultations

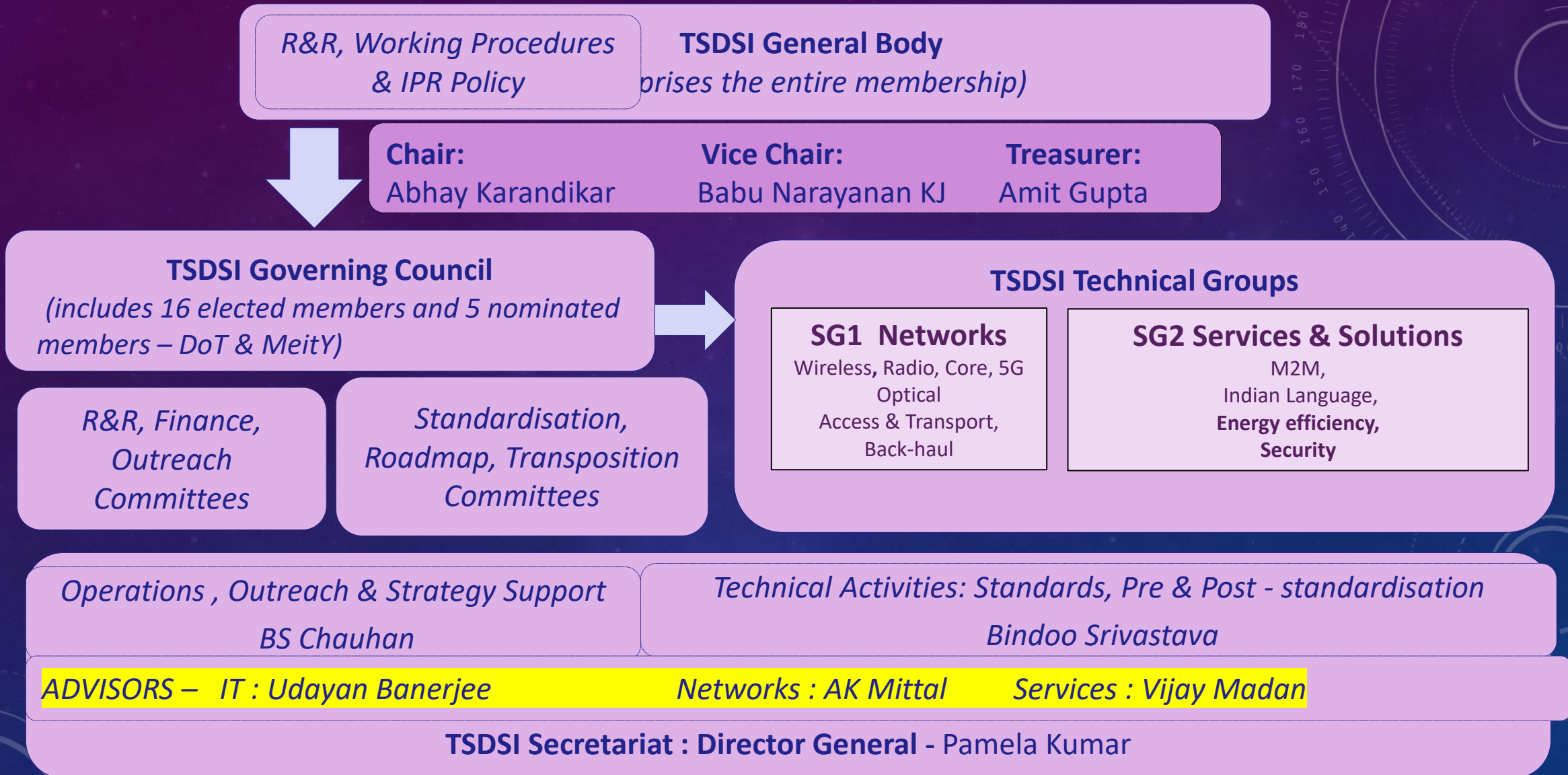
Indo-EU/ IF3 –Workshops.
Test Beds etc.

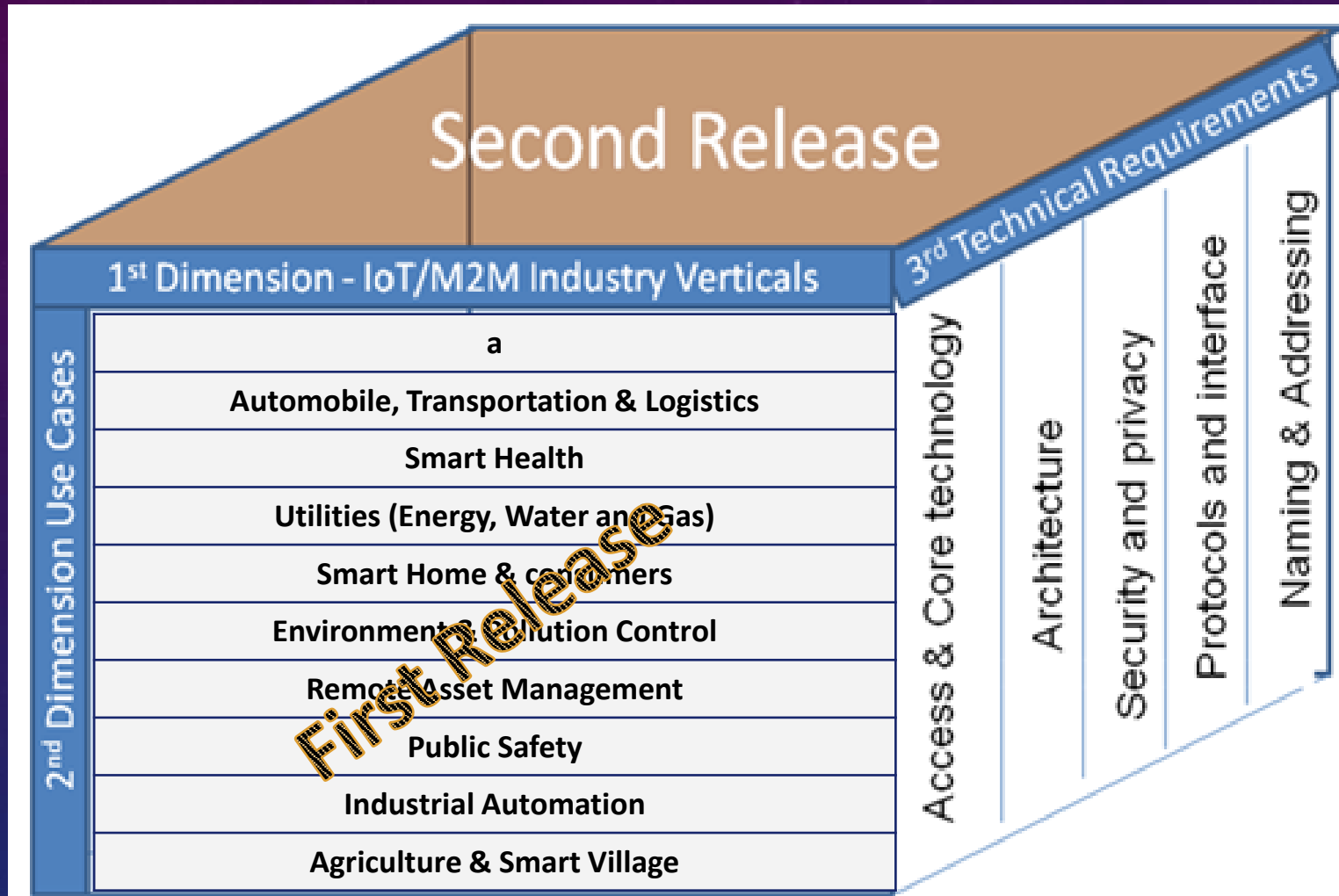
Standardisation
India appropriate
requirements and
Research &
Innovation driven
contributions to the
Global Standards

ITU –R/T
11 Use cases for Smart Cities
to ITU-T 20
LMLC mandatory for IMT2020
– ITU-R WP5D

3GPP/ One M2M
OP, Transposition & 100 +
contributions

**HIGH RISK, HIGH COST
CHURNING the OCEAN
NEEDS RESILIENCE**





TSDSI IoT WG did a study on Indian requirements & created 11 India specific technical reports
Leveraging ITU Template – submitted to ITU SG 20

Time (hrs.)	Title of the Talk	Name of the Speakers/Panelists
AGENDA for oneM2M INDUSTRY DAY Date: 20 th September, 2017 Time: 08:30 hrs - 17:00 hrs		
Registration of the Participants for the Industry Day		
8:30 to 9:00		
9:00 to 9:10	Welcome and Opening Remarks	Ms. Pamela Kumar, Director General - TSDSI
9:10 to 9:20	Keynote Address	Mr. Klaus Pendl, First Counsellor – ICT, Delegation of the European Union to India
9:20 to 9:35	Introduction to oneM2M oneM2M features, evolution, app to smart city	Mr. Omar Elloumi, oneM2M TP Chair- Nokia
9:35 to 10:00	How oneM2M fits into the landscape of IoT technologies	Mr. Josef Blanz, oneM2M TP Vice Chair- Qualcomm
10:00 to 10:20	oneM2M's Value Proposition to Developers	Mr. Dale Seed, oneM2M ARC Chair- InterDigital
10:20 to 11:00	Panel session 1 Theme: Role & Value proposition of oneM2M in the IoT Standards landscape	Moderator: Mr. Josef Blanz, oneM2M TP Vice Chair- Qualcomm Panelists: Mr. Chris Drake, iconectiv; Mr. Timothy Carey, Nokia; Mr. Rouzbeh Farhoumand, Huawei; Mr. Aurindam Bhattacharya, C-DOT
Networking Break		
11:00 to 11:30		
11:30 to 11:50	IoT/M2M for Digital India and Smart City Concepts	Prof Amrutur Bharadwaj, IISc; Mr. Bipin Pradeep Kumar, GAIA Smart Cities
11:50 to 12:10	IoT/M2M for Health and Safety	Dr. Samar Shailendra, TCS; Mr. Suresh V, C-DAC
12:10 to 12:30	IoT for Automotive & Transport	Mr. Sharad Arora, Sensorise; Mr. Raakesh Menon, Vodafone
Lunch		
12:30 to 13:30		
13:30 to 14:20	Panel session 2 Theme: Challenges and Solutions for SMART Solutions: Protocols, Interoperability, Testing and collaboration.	Moderator: Mr. Vipin Tyagi, Executive Director, CDOT Panelists: Mr. Abhijit Lele, BOSCH; Mr. Ian Deakin, iconectiv; Mr. Sharad Arora, Sensorise; Mr. Omar Elloumi, Nokia; Mr. Colin Blanchard, BT
14:20 to 14:50	Security, Privacy and Device Onboarding	Mr. Francois Ennesser, Gemalto N. V. (ETSI); Mr. Wolfgang Granzow, Qualcomm
14:50 to 15:10	Communication Technologies for IoT/M2M	Mr. Manoj Kumar, STMicroelectronics
15:10 to 15:40	Testing Aspects	Mr. Laurent Velez, ETSI; Mr. A. K. Mittal, former Sr. DDG – TEC. DoT
Networking Break		
15:40 to 16:10		
16:10 to 16:30	Numbering/Naming Scheme and Regulatory aspects for IoT/M2M	Shri Rajiv Sinha, DDG(NT)- DoT; Shri Sushil Kumar, DDG - TEC, DoT
16:30 to 17:00	Closing Session: Way Forward and Next steps for oneM2M in context with other organizations	Mr. Babu Narayanan, Vice Chairman, TSDSI; Shri Lav Gupta, Sr. DDG - TEC, DoT Mr. Omar Elloumi, oneM2M TP Chair- Nokia; Mr. Josef Blanz oneM2M TP Vice Chair- Qualcomm

STANDARDS are the Collaboration piece of
“Co-opetition”

The TOOL is Consensus Building,
TSDSI is the platform

&

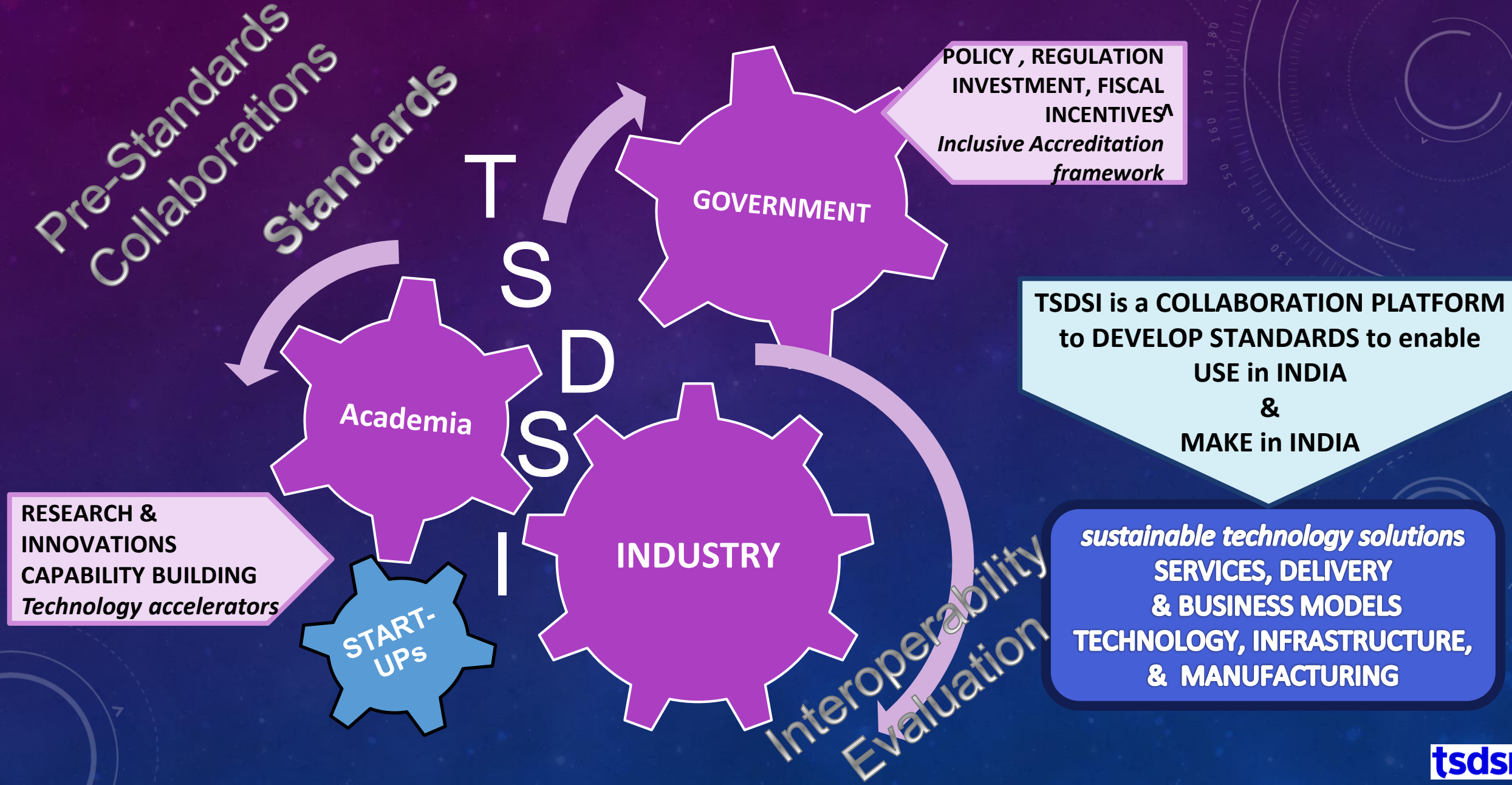
It is a lot of fun and learning in an open, fearless
forum

THANK YOU

Acknowledgements

1. Prof. Abhay Karandikar, Chairman TSDSI
2. Babu Narayan, Vice Chair TSDSI
3. BS Chauhan, Executive Director, TSDSI
4. Bindoo Srivastava, General Manager, TSDSI

NEED OF THE HOUR – ACTIVELY COLLABORATING ECOSYSTEM



WHY DO WE NEED STANDARDS ?

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JOURNEY SO FAR...



FORMING

STORMING

NORMING

PERFORMING