



Presentation IMESA Seminar

Planning, engineering and design considerations to service societies in a responsible manner

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Outline

- Introduction to MPAMOT
- Background and Context
- FISTS Concept
- Q & A

“A lone voice is not as loud as singing together.

Let your female voice be heard to herald the dawn of change, that we need in our country.”

Malani Padayachee-Saman

Sectors



ENERGY & RENEWABLES



MUNICIPAL



HEALTH



EDUCATION



MINING



FINANCIAL



HUMAN SETTLEMENT



PROPERTY



INDUSTRIAL



TRANSPORTATION



ICT



WATER & WASTE WATER

Expertise

INFRASTRUCTURE

- Building structures
- Industrial buildings
- Civil/structural building services
- Water and wastewater
- PPCM

TRANSPORTATION

- Highways
- Bridges
- Pavements
- Transport planning

ENERGY

- Transmission and distribution
- System studies
- Thermal
- Renewable energy
- Wind and photo-voltaic
- Environmental and social

ADVISORY

- Infrastructure finance
- Technical advisory
- Water advisory
- Digital advisory
- Development impact
- Employment creation

Background and Context

- Structuring the Future
- The Past
- The Current Reality

Structuring The Future



The Past

- Legacy Issues
 - Urban Planning
- Impact of Sanctions
 - Advancement of R & D, eg Trenchless Technology
- Unemployment
 - High, but initiatives to address
- Inequality
- Service Delivery

The Current Reality

- Impact of Pandemic
 - Globally/Locally
- Legacy Issues
- Unemployment
- Inequality
- Poor Service Delivery etc.....



Years to return to pre-COVID19 GDP Levels

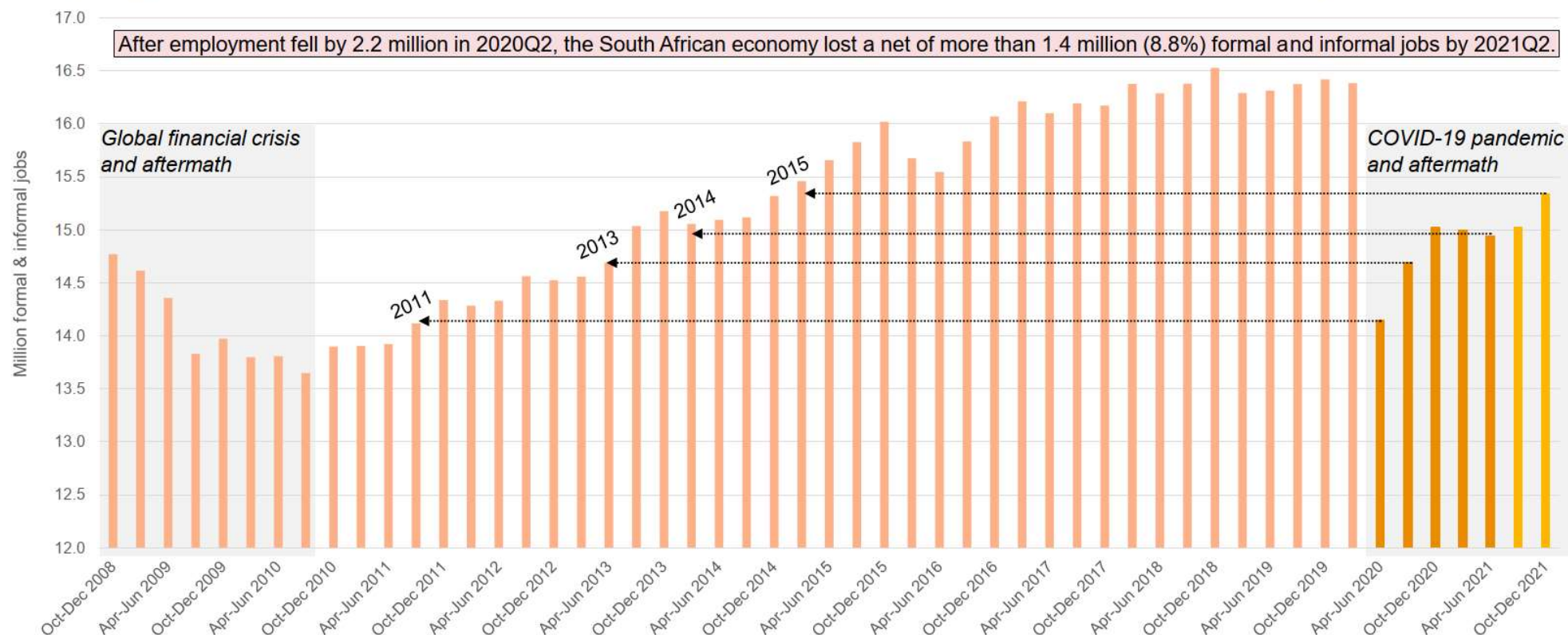
Upside – 2,5 years

Baseline – 3,5 years

Downside – 7 years

Source PWC Report 24th August 2021

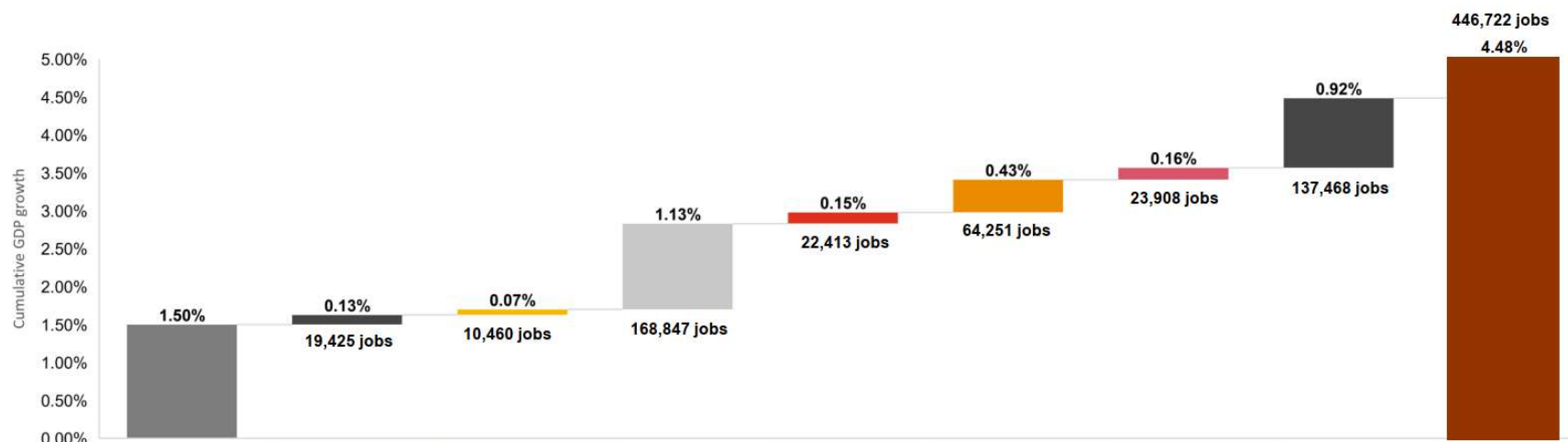
Back to the Future: employment fell to 2011 levels in 2020Q2 and “recovered” to 2014 levels by 2021Q2. By the end of this year, total employment should be at a similar level to that seen in 2015.



Sources: Statistics South Africa (historical), PwC (forecasts from 2021Q3)
PwC

* Note: The employment forecast numbers are based on PwC's estimation that for every 1% increase in GDP, jobs increase by 0.84% (Quarterly from 2010Q1 – 2021Q1).

The South African recovery path: potential to change the direction



	Current potential long-term annual GDP growth	1% increase in FDI	1% improvement in ease of starting a business ranking	1% improvement in electricity availability/supply	1% improvement in digitisation	1% increase in pvt sector investment	1% increase in local content	1% improvement in knowledge capital	Potential achieved GDP growth rate 2031
Potential share of GDP improvement		4.30%	2.40%	37.90%	5.00%	14.42%	5.25%	30.73%	
Incremental Increase in GDP growth rate		0.45%	0.25%	3.94%	0.50%	1.44%	0.52%	3.00%	
PwC	PwC calculations adapted from Short-lived supply shocks to potential growth, B. Botha, F. Ruch and R. Steinbach, SARB Working paper series, WP/18/02 June 2018	PwC calculations adapted from The role of country income levels and institutional strength, EIB Working paper 2020/02	PwC calculations adapted from Improvements in the World Bank's Ease of Doing Business Rankings: do they translate into greater foreign direct investment inflows?, Development Policy Centre, Discussion Paper 8, J. Dinuk, 2011	PwC calculations adapted from Exploring the nexus of electricity supply and economic growth in South Africa, H. Khobai, G. Mugano and P. Le Roux, Economic Research Southern Africa, 2017	PwC Strategy&, Maximizing the impact of digitization, 2012	PwC calculations using Social Accounting Matrix	PwC calculations using Social Accounting Matrix	PwC calculations adapted from For long-term economic development, only skills matter, E.A. Hunushek, IZA World of Labour, 2017	PwC calculations

Note: The job numbers are based on the 2019 official employment figure of 16.42 million and the PwC estimation that for every 1% increase in GDP, jobs increase by 0.91%.

Source PWC 24th August 2021

The FISTS Concept



The emoji is commonly used to express solidarity with historically oppressed groups or people and social causes

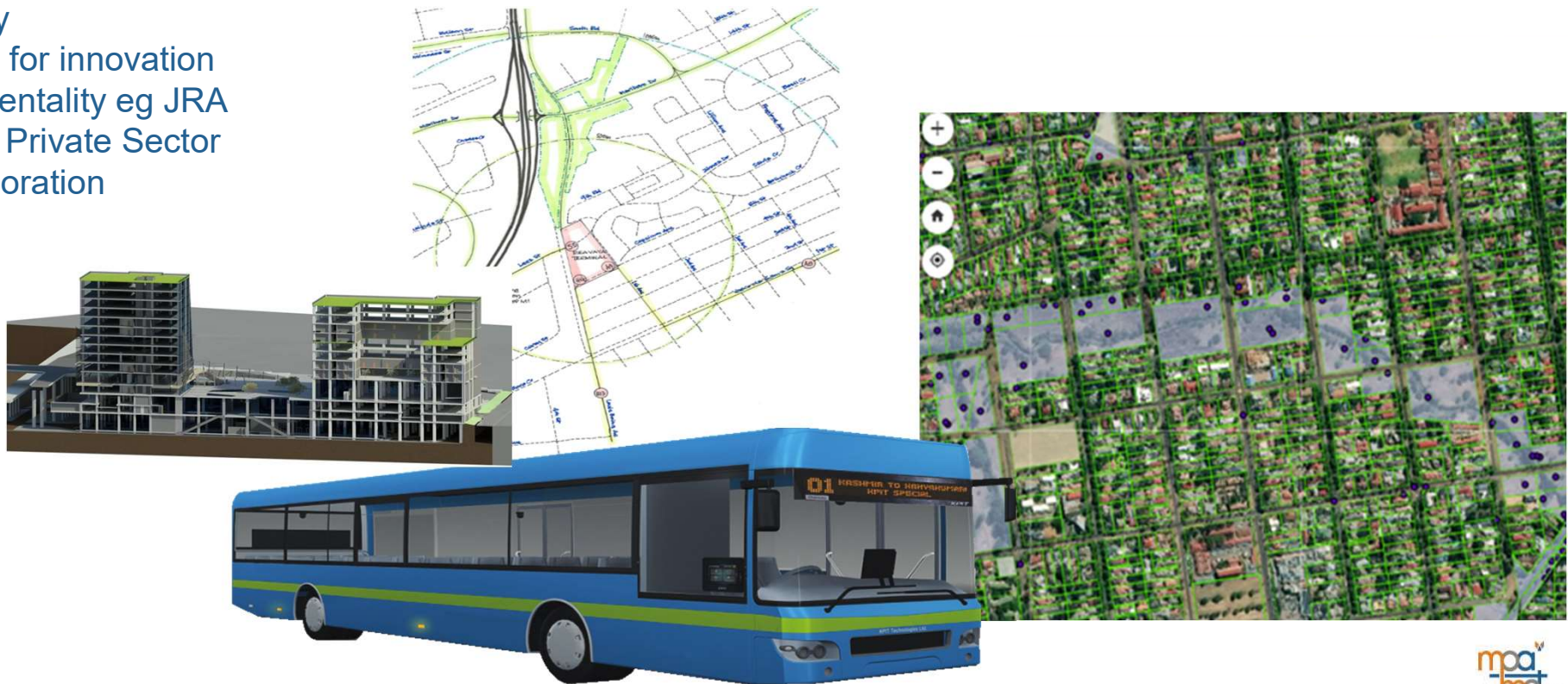
F – Future-proofed

- Labour
 - Skills required
 - Longevity
 - Mentorship – Fast-track
- Plant
 - Relative to skills
 - Employment Absorption
- Materials
 - Environmental considerations



I - Integrated

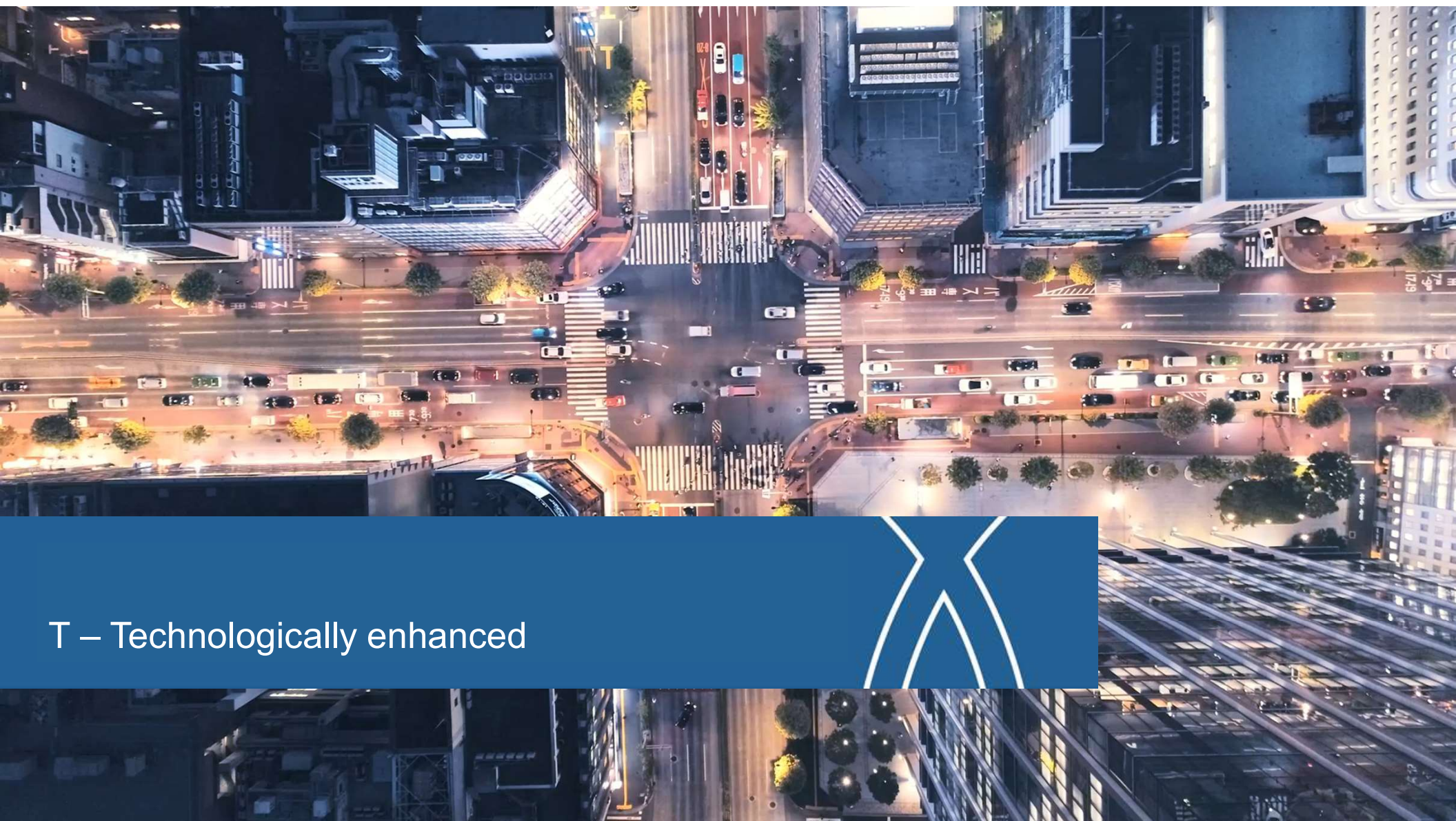
- History
- Scope for innovation
- Silo Mentality eg JRA
- Public Private Sector Collaboration



S – Sustainable

- Environment, climate change
- Circular Economies
- Impact of Pandemic
- Developmental Economics





T – Technologically enhanced

T – Technologically enhanced



- 4IR
- Big Data - Opportunities
- Young Population - Leap frog
- Global Competitiveness

S - Societies

Community vs Society

- Community is the collection of people with similar interests
- Society is built upon interactions with varied people



The FISTS Concept

- F - Future-proofed
- I – Integrated
- S - Sustainable
- T – Technologically enhanced
- S – Societies





“The future depends on what YOU do TODAY”

Ghandi

Q & A

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