

The Rise of Digital Technologies & & Digitally Empowered Societies & Economies

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It's a Digital World

Rapid evolution and fusion of Digital Technologies driving Innovations globally



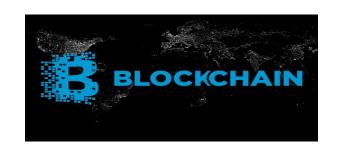




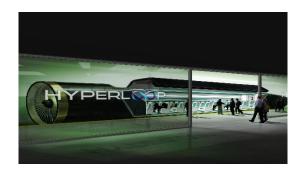












Advanced Transportations

Leading to new "Digitally Enabled" Applications, Business models, Social and Commercial innovation and entrepreneurship possibilities

Several Global Challenges in a world driven by Inequalities But

Digital Technologies create Unique opportunities for

Social and Commercial Innovation with Global impact









Rural Infrastructure Electricity for all



Healthcare for all



Rural livelihood & Entrepreneurship

Digital Strategies

An Absolute must for Organizations and Governments To enable socio-economic progress aligned with Sustainable Development Goals



Digital Solutions Imperatives

A Holistic Approach Needed

Innovation

- Creating a Digitally enabled Problem Solving Innovative mindset in Schools/Univ/Industry / Governments/NGOs
- Stimulating an ecosystem of innovation with Digital Innovation Labs, infrastructure
- Digital Innovation Global Recognition and Replication

Entrepreneurship

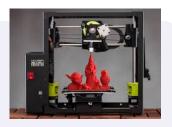
- Creating World Class Digital Innovation Hubs, Incubatiors
- Promoting thousands of social/commercial Digital innovations
- Nurturing creation of thousands of Digital Entrepreneurs globally

Preparing the Young for a Digitally empowered World An example: Atal Tinkering Labs in India Fostering Digitally Enabled Innovative Mindset in school students

Biggest potential Digital Disruption in Formal education to stimulate an innovative mindset in school students in India

What are Atal Tinkering Labs?

- **Dedicated Work spaces to** learn innovation skills & develop ideas
- **Hub for innovation, making &** tinkering
- Free space to think of new and different ideas
- **Equipped with tools to** develop innovations across multiple sectors



Rapid Prototyping Tools (3D Printers)



Electronics Development



Internet of Things & Sensors

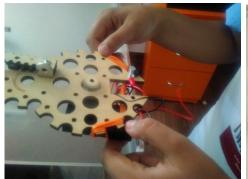


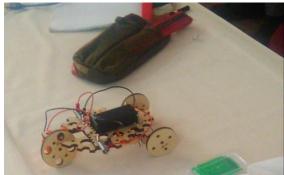
Preparing the Young for a Digitally empwered World

Fostering Digitally Enabled Innovative Mindset in students

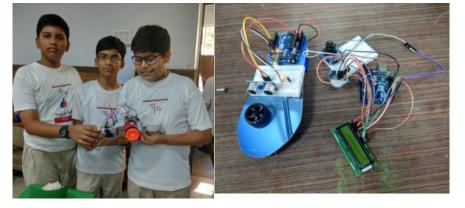
an example: ATL Tinkering Challenges / Tinkering Fests / Tinkering Marathons in India

Suspension car, wheel launcher: IPS Gaziabad





Darbari Lal DAV Shalimar Bagh -Home anti-theft system, water pumping car



Chariot that kills its enemies: Blue Bells PS Gurugram





- 5441+ ATLs across India
- Covering 650+ districts
- 32 states and 7 Union territories
- 1+ million school Grade VI-Grade XII students

Innovative light sensor devices and lamps: ASN Mayur Vihar





40000+ students across India created 6000+ innovations in Atal Tinkering Marathon held last year – Top 100 innovations recognition

Digital Innovation & Entrepreneurship in Universities and Startups and R&D Institutions

Exponentially being Enabled Globally through

Advanced Computing, Ubiquitious Connectivity, Fusion of technologies, Partnerships

Business strategy Concept Partnerships Infrastructure and **Cultural connect Support for start**up growth story connections co-working Entrepreneurial ecosystem: **Digitally** events, awards, **Innovative** academia Companies Capabilities Capital Scalable and Mentoring sustainable **Training** Seed funding / connection to business plans angel investors **Prototyping** facilities

Digital Innovations enable Reimagination of new Solutions for Diverse sectors while also bridging Social Inequalities

Great Opportunity for new Startups, Entrepreneurs, Corporates



Agri-Farming, precision Agriculture



Farm produce



SME / Manufacturing



Rural handicrafts & Textiles



Al / Automation / Blockchain / Robotics / Big Data



Tourism



Fintech – Microfinance Rural Insurance



Rural Healthcare Advanced Biotech



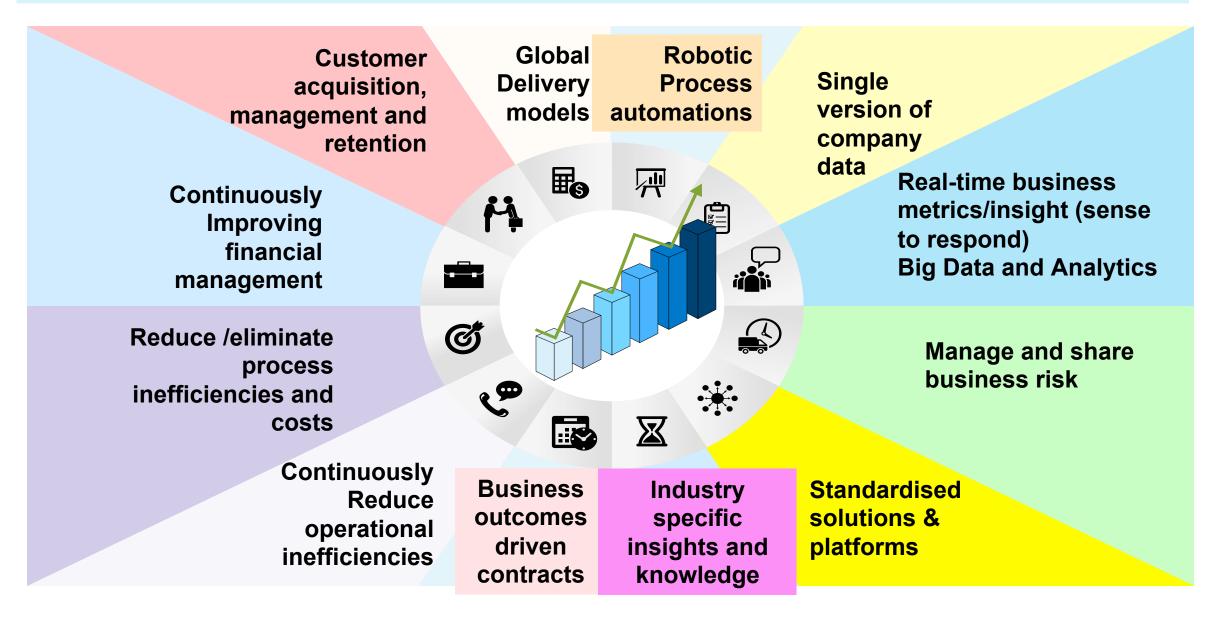
Rural Education and Vocational Training – VR/AR/DL

IR4.0 & Digital impact in the Corporate world

Digital Re-imagination of every product and service Economic and societal growth would be digital innovation driven



Rapidly advancing, affordable, Digital Innovations needed to address Key challenges and needs of Enterprises



Survival of the fittest in the Corporate world would demand

<u>Transformation of today's enterprise into a Digitally enabled Enterprise</u>
For faster, better products and services with lower costs to end consumers

Seamless multichannel experience
Wherever and whenever service positions

Enhanced corporate control

- Real-time MIS & decision making
- Seamless integration into 3rd parties
- Improved targeting with customer insights
- Embedded automated controls and risk profiling

Customer experience

Decision Making
Big data & analytics

Digital Enterprise

Automation technology

Product & Services innovation

Business

Innovation

and services Models, products

Digital supply chain fulfilment

Marketing, distribution

& sales

 Digital marketing with higher ROI

New digital product

Co-creation of new

& services

products

- Augmentation of traditional channels
- Straight-through processing
- Virtual servicing and administration

Risk optimisation

Connectivity

stakeholders

Source: McKinsey, NASSCOM

Meaningful Digital Impact to Societies & Nations needs Institutional and Legal Restructuring & Alignment by Govts

_to accommodate the Digitally powered world

Pinancial reforms & restructuring

Manufacturing and labour reforms & restructuring

21st century govt. cannot deliver with 19th century institutions

Healthcare systems Restructuring

Educational Institutions –

Restructuring & reforms

Judicial & legal institutions Cybersecurity & privacy

Collaborations are the Keys for success for all in a Digitally Empowered Connected world

Individuals,

Corporates, SMEs, Multinationals

Central, State and local and Global governments

Digitally Enabled Collaborations

Global Industry partnerships, NGO partnerships

IGlobal Academia

Thank You

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Arise, Awake and Stop Not till your Goals are reached Swami Vivekananda