



IREPA INTERNATIONAL
An IoT Consultancy

IIoT and Green Energy for Buildings

Tuesday, December 21, 2021

Sanjiv S Gupta, CEO
Irepa International

Guardians of Factual Based Intelligence



Trusted IIoT, Industrial Cybersecurity Consultancy and
System Integrator



Sustainability
Biodiversity
Circular Economy

Health & Safety

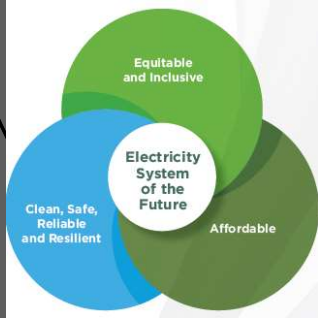
Regulatory Compliance
Transparency

1

Microgrid: Energy (green, clean, renewable), resiliency, efficiency

- Generation
- Transmission
- Distribution

Solar PV, H2, Micro-Wind, Battery based Microgrid, etc.



2

Structure delivery
Construction, etc.

IIoT, ICS: Workflows, Systems & Processes, etc.

Machines: HVAC, Elevators, Escalators, Refrigeration, Factory Machinery, etc.

Materials, Water and Resources

End Points: Robots, Cell Phones, PCs, Wearables, Smart LED, Sensors, Actuators, etc.

3

Verticals

Roadways
Railways

Aviation

Healthcare

Seaports
Maritime
Riverways
Lakes

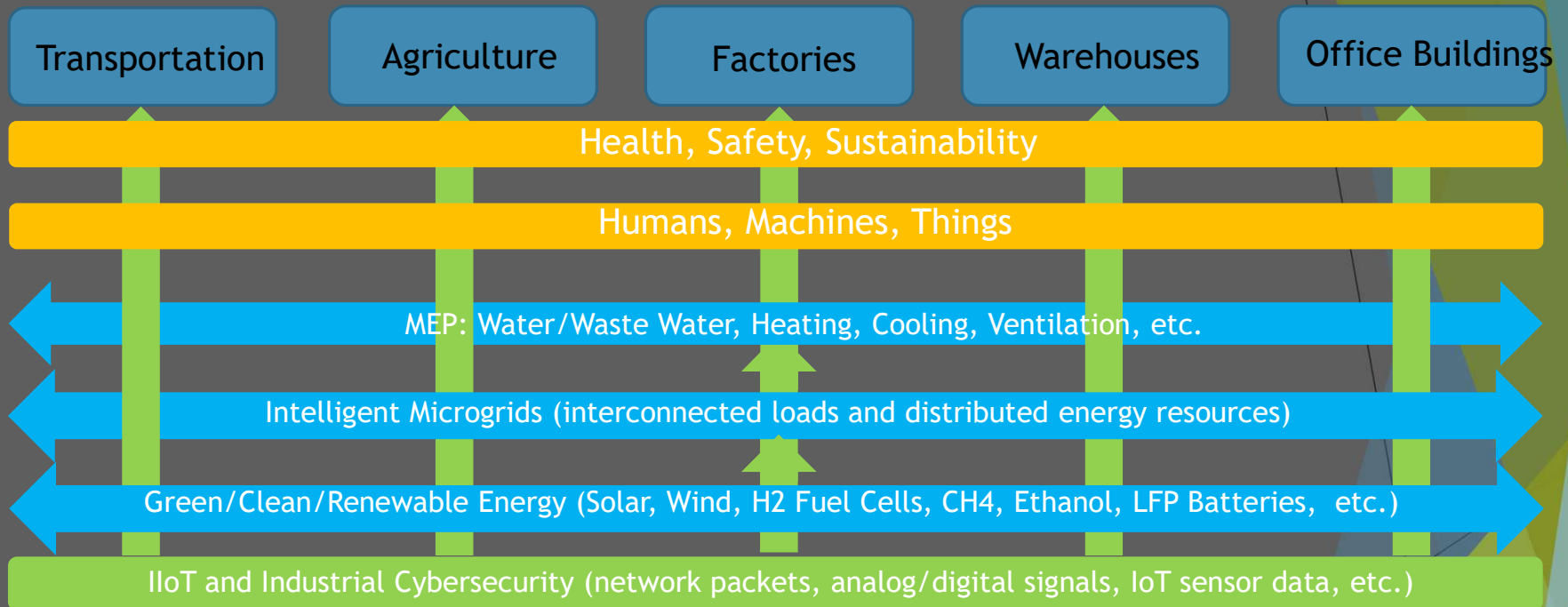
Office/Retail Buildings
Factories
Warehouses
Distribution Centers
Data Centers

Agriculture,
Food & Beverage

Utilities

Retail

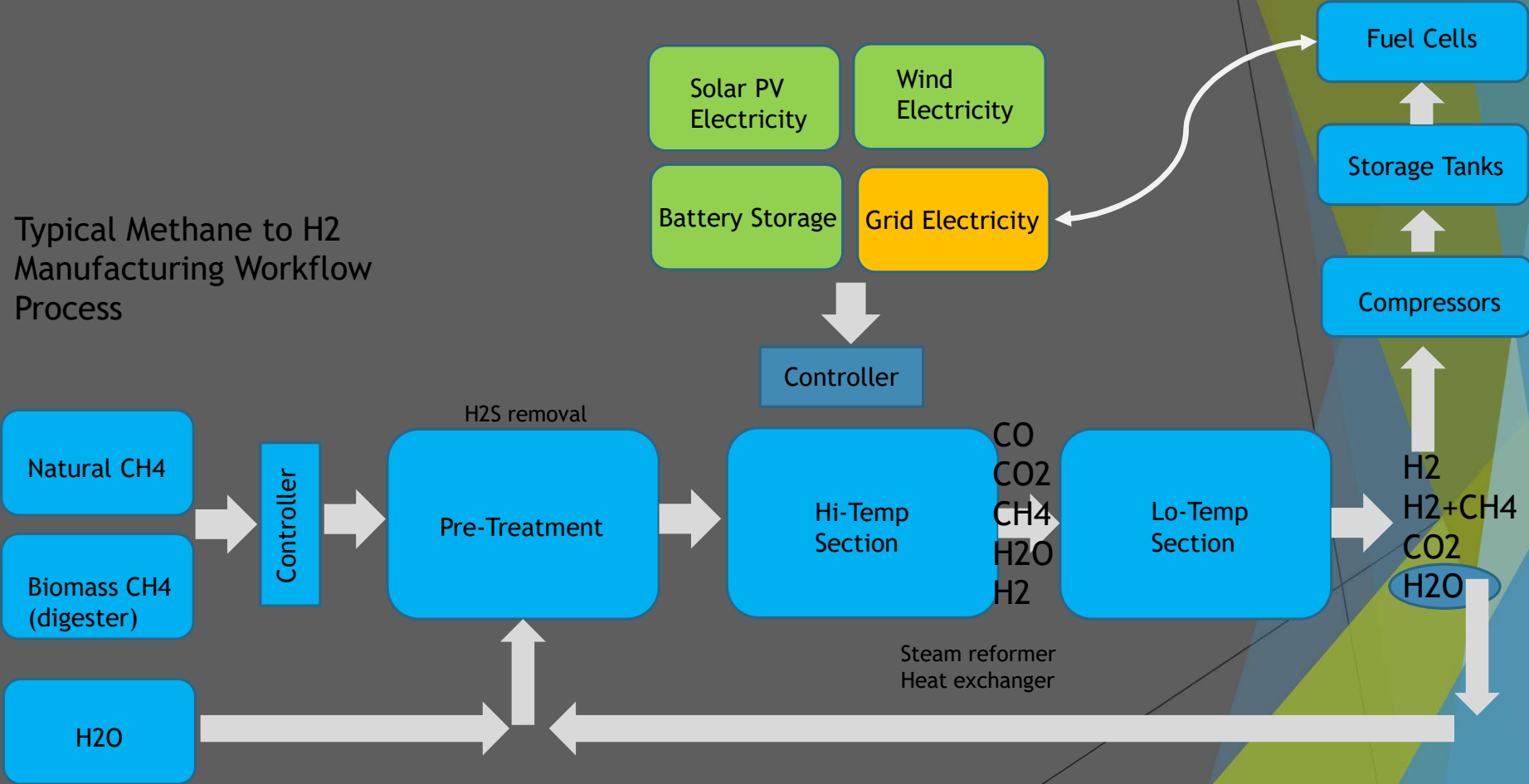
IRI Value Proposition



- IIoT powered Energy Management System
 - Microgrid asset predictive/prescriptive maintenance, energy optimization/load balancing, emissions monitoring, etc. during generation process, transmission and distribution to the powered loads
- Building Automation, Factory Automation, Agriculture Automation, Warehouse, Office Automation
 - Remote Monitoring, Predictive/Prescriptive Maintenance / Actuation, etc.
- Intelligent Transportation
- etc.

Example using IIoT in the manufacture of H2

Typical Methane to H2 Manufacturing Workflow Process



Questions?

Contact Info

- ▶ Sanjiv S Gupta, CEO/Co-Founder
- ▶ www.irepainternational.com
- ▶ 301 N Palm Canyon Dr
- ▶ Suite 103, #143
- ▶ Palm Springs, CA 92262
- ▶ Phone: 805-637-3276