

**SIEMENS**




# Emerging Technologies and the Intelligent Building

# Emerging Technologies



# Intelligent Buildings

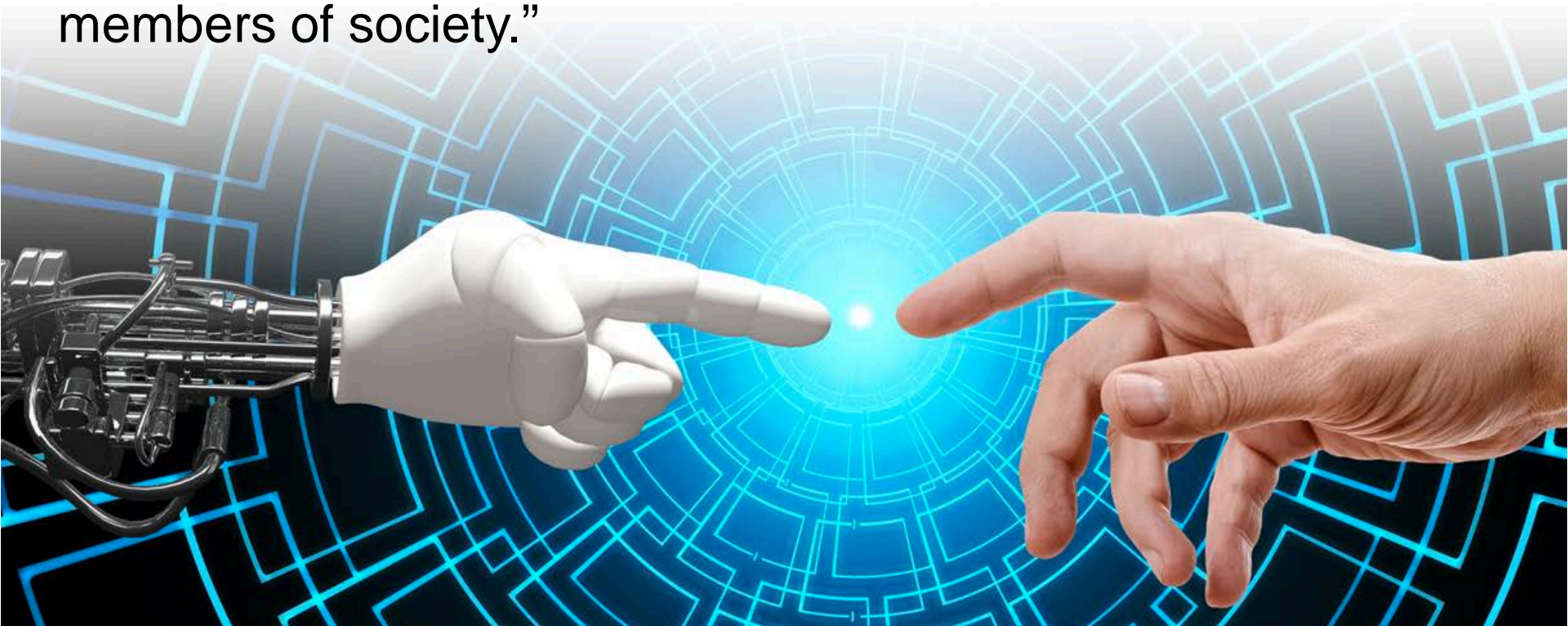


A definition, coined by the **Intelligent Buildings Institute**, defines an **intelligent building** as *“one which provides a productive and cost-effective environment through optimization of four basic elements: structure, systems, services and management, and the interrelationship between them.”*

# Artificial Intelligence

## #1 - Artificial Intelligence (AI)

As artificial intelligence grows in its capabilities - and its impact on people's lives - businesses must move to "raise" their AIs to act as responsible, productive members of society."



# Extended Reality


## #2 Extended Reality – The End of Distance

“Immersive experiences are changing the way people connect with information, and experiences, and each other.”



# Data Veracity

## #3 Data Veracity – The Importance of Trust




“By transforming themselves to run on data, businesses have created a new kind of vulnerability: inaccurate, manipulated, and biased data that leads to corrupted business insights, and skewed decisions with a major impact on society.”

# Frictionless Business

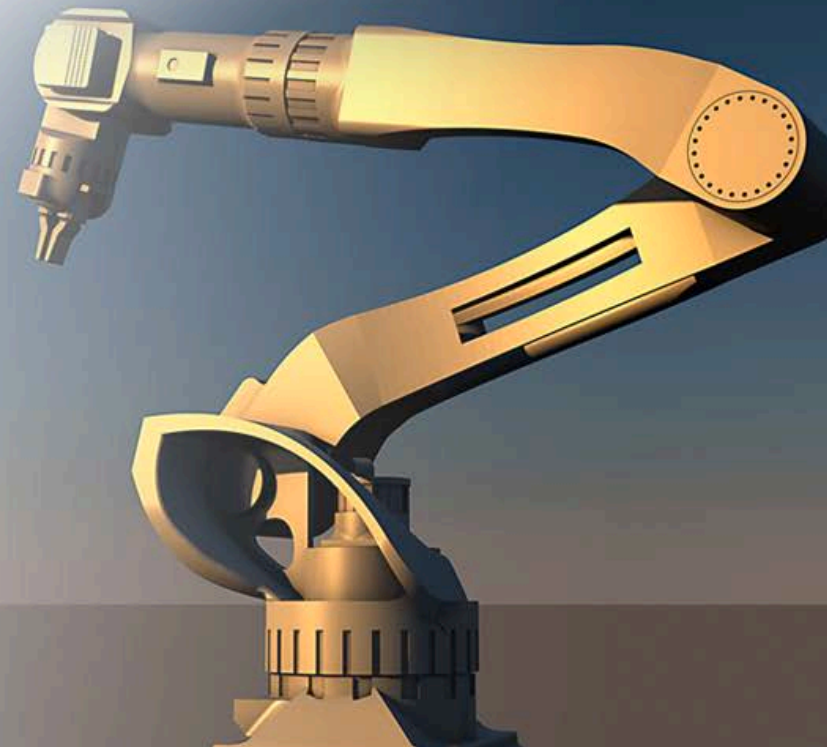
## #4 Frictionless Business – Built to Partner at Scale

Businesses depend on technology-based partnerships for growth. However the needs of technology based partnerships are shifting towards microservices, and Blockchain.

The background of the slide features a faded technical drawing or blueprint, likely a mechanical or electrical schematic, overlaid with a large, semi-transparent ruler. The ruler is positioned diagonally across the bottom right corner, with markings in inches and centimeters. The ruler has text such as 'TOP CUT', 'COMMON', and 'HP-VAL' visible on its edge. The overall aesthetic is professional and technical, consistent with the Siemens brand.

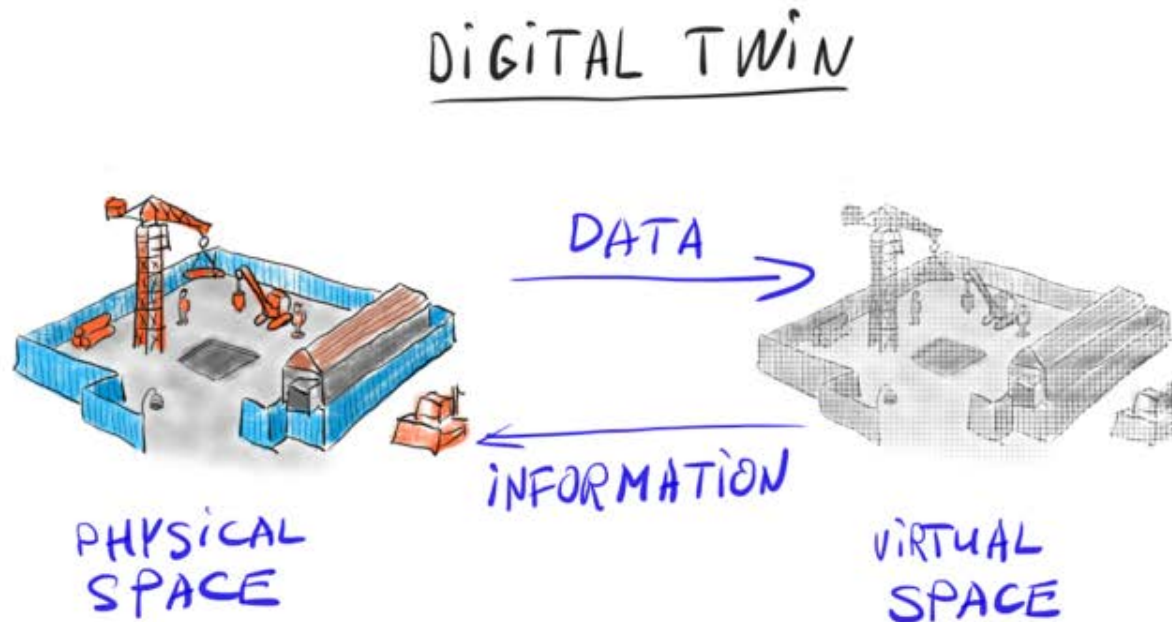
# Internet of Thinking

## #5 Internet of Thinking – Creating Intelligent Distributed Systems





# Digital Twin



## Technologies needed:

- Data Veracity
- Augmented Reality
- Blockchain
- Deep Machine Learning

# What's the impact on the Fire and Life Safety industry?

## IT Trend

Artificial Intelligence



## Fire and Life Safety Applications

Seamless integration

Extended Reality



Smart Fire Fighting/Emergency Response

Data Veracity



Data Analytics/ Cyber Security

Frictionless Business



Interface via Aps/ Data Verification

Internet of Thinking



Intelligent Buildings

# Challenges

- Technology continues to advance.
- What new skills do I need to learn ?
- What data do I need?



# What's Next?

- Smart City/Response
- How do we utilize technological advances without limiting the Technology?
- More new technology!



# Stay Connected



National Business Development Manager  
Siemens  
[maria.marks@siemens.com](mailto:maria.marks@siemens.com)