Integrated Culture
What Merging Human and Internet Means for our Global Future

Michael J. Savoie, Ph.D.

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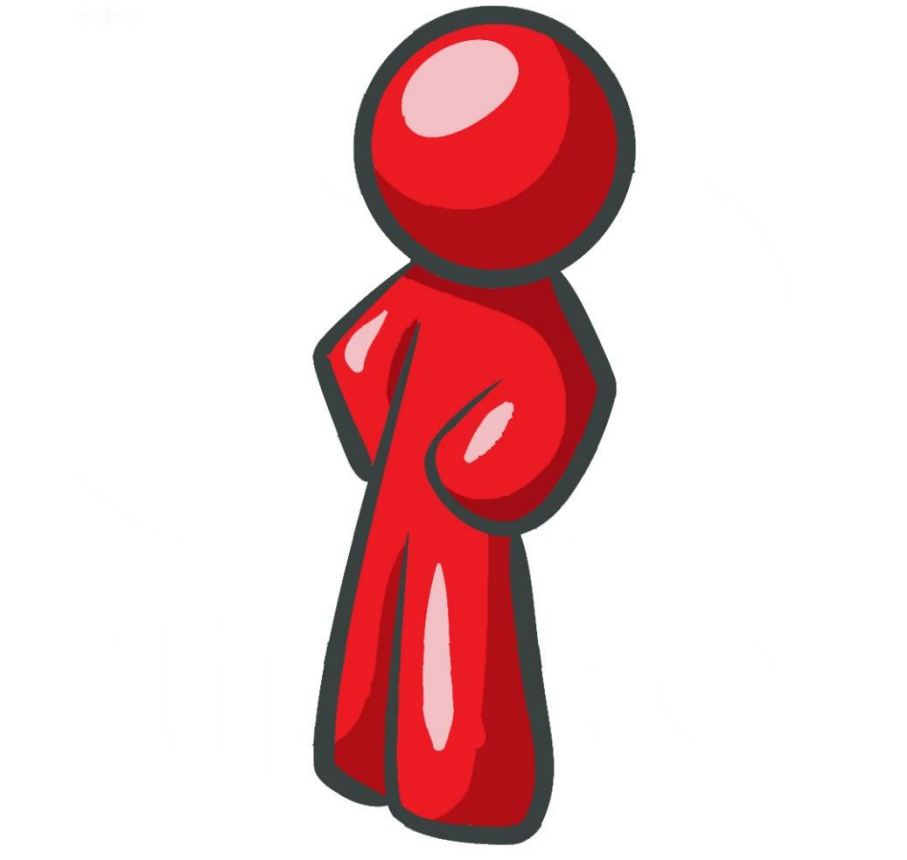
Modular



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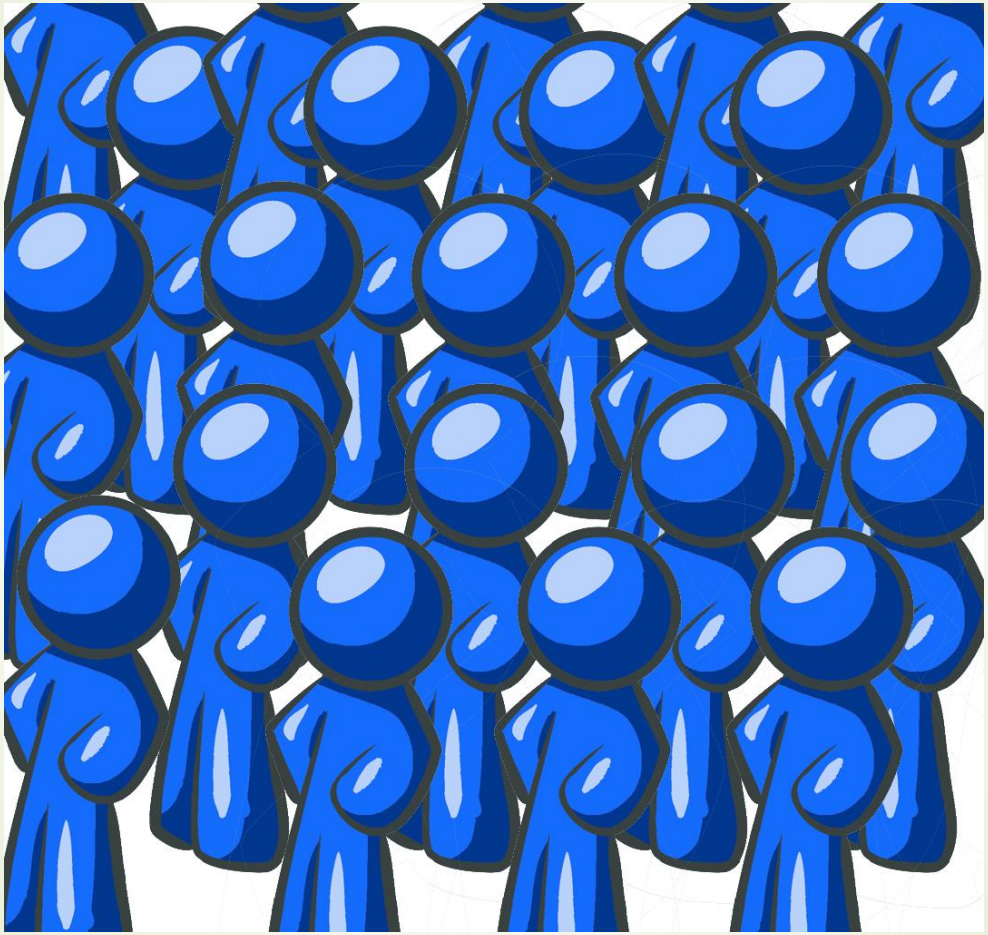
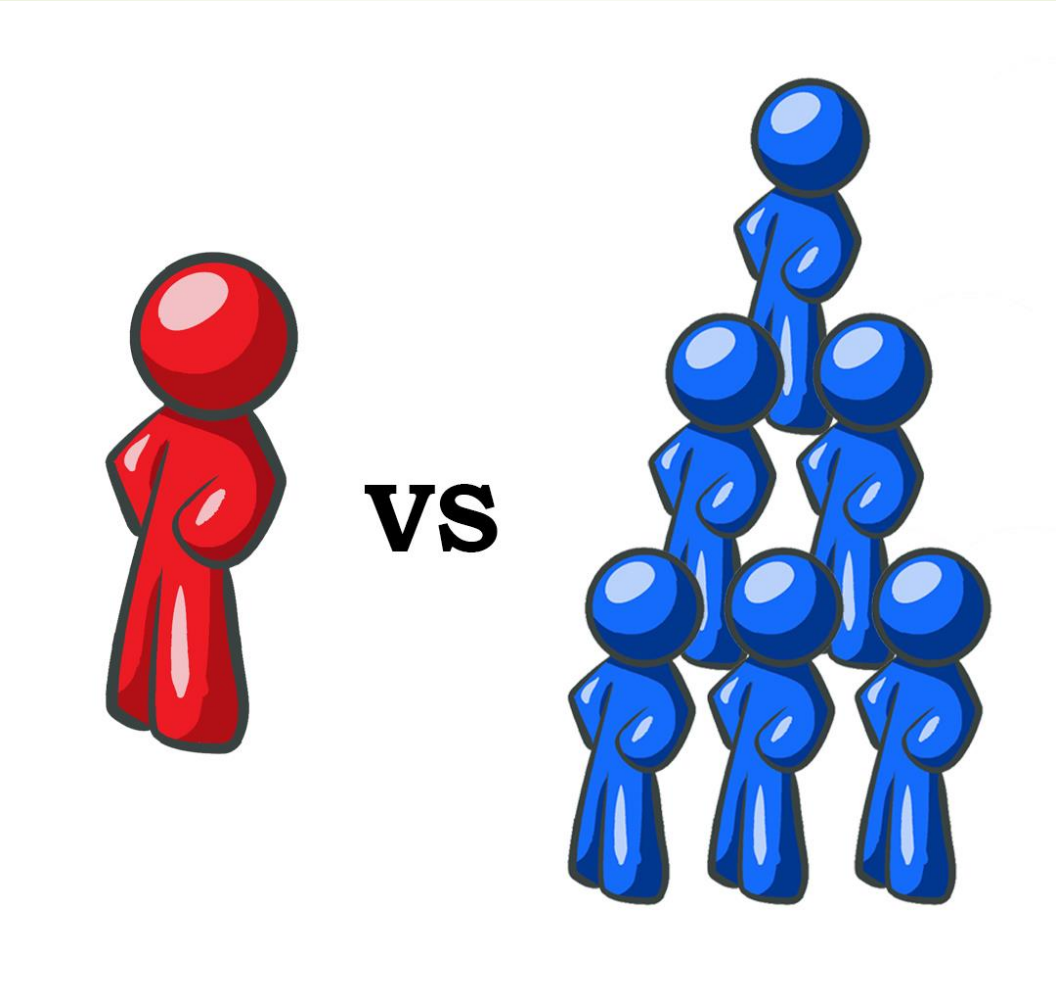
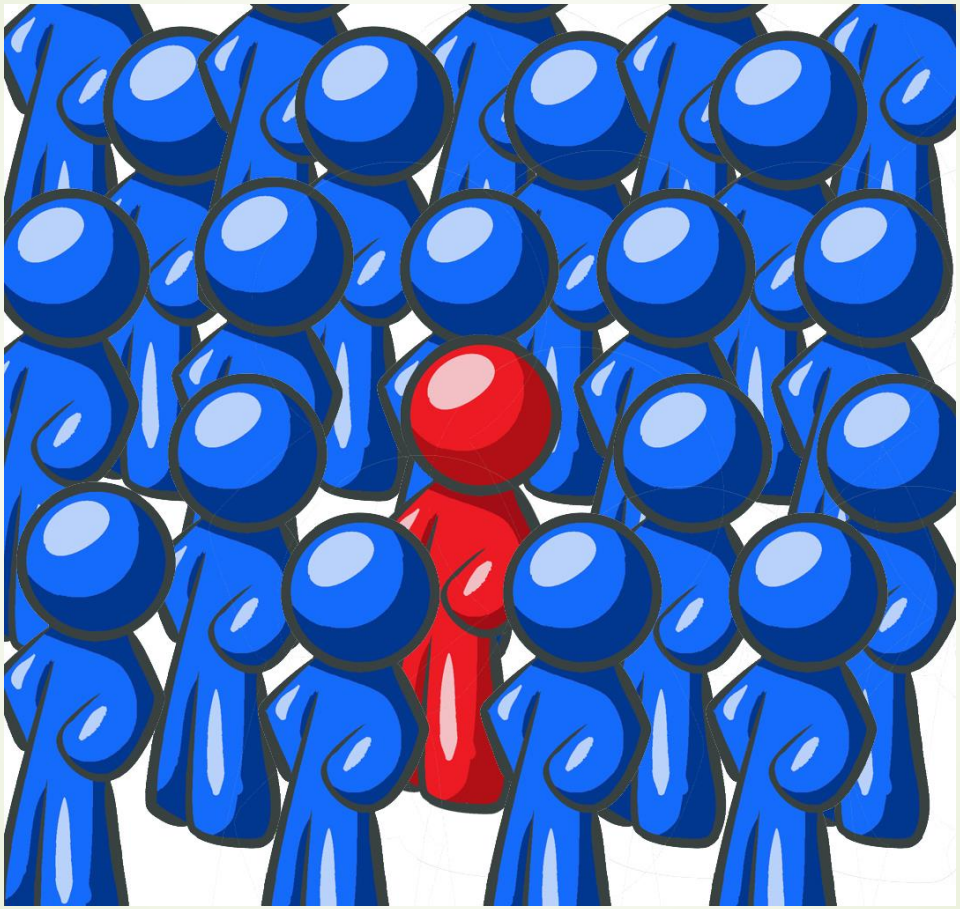


Traditional



Integrated Modularity



Example

- Let's all go to 1601 Gulliver Travel Way in Nashville, Tennessee

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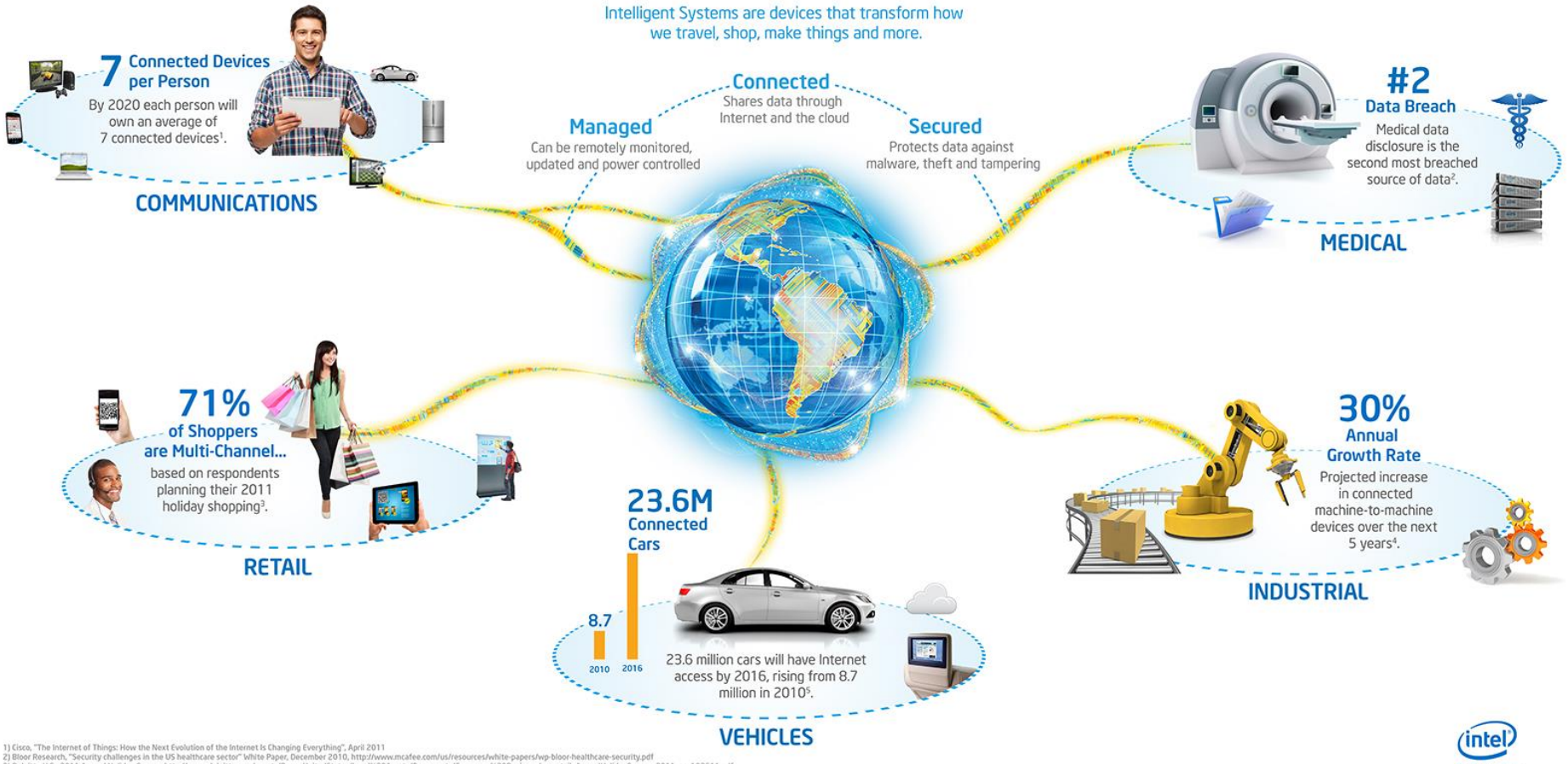
Intelligent Systems for a More Connected World



1) Cisco, "The Internet of Things: How the Next Evolution of the Internet Is Changing Everything", April 2011
2) Bloor Research, "Security challenges in the US healthcare sector" White Paper, December 2010, http://www.mcafee.com/us/resources/white-papers/wp-bloor-healthcare-security.pdf
3) Deloitte U.S., 2011 Annual Holiday Survey, http://www.deloitte.com/assets/Dcom-UnitedStates/Local%20Assets/Documents/Consumer%20Business/us_retail_AnnualHolidaySurvey_2011_pr_102611.pdf
4) McKinsey Global Institute analysis, "Big data: The next frontier for innovation, competition, and productivity", June 2011)
5) Wall Street Journal, http://online.wsj.com/article/SB10001424052702304066504576349763614933844.html, estimate from research firm, Frost & Sullivan

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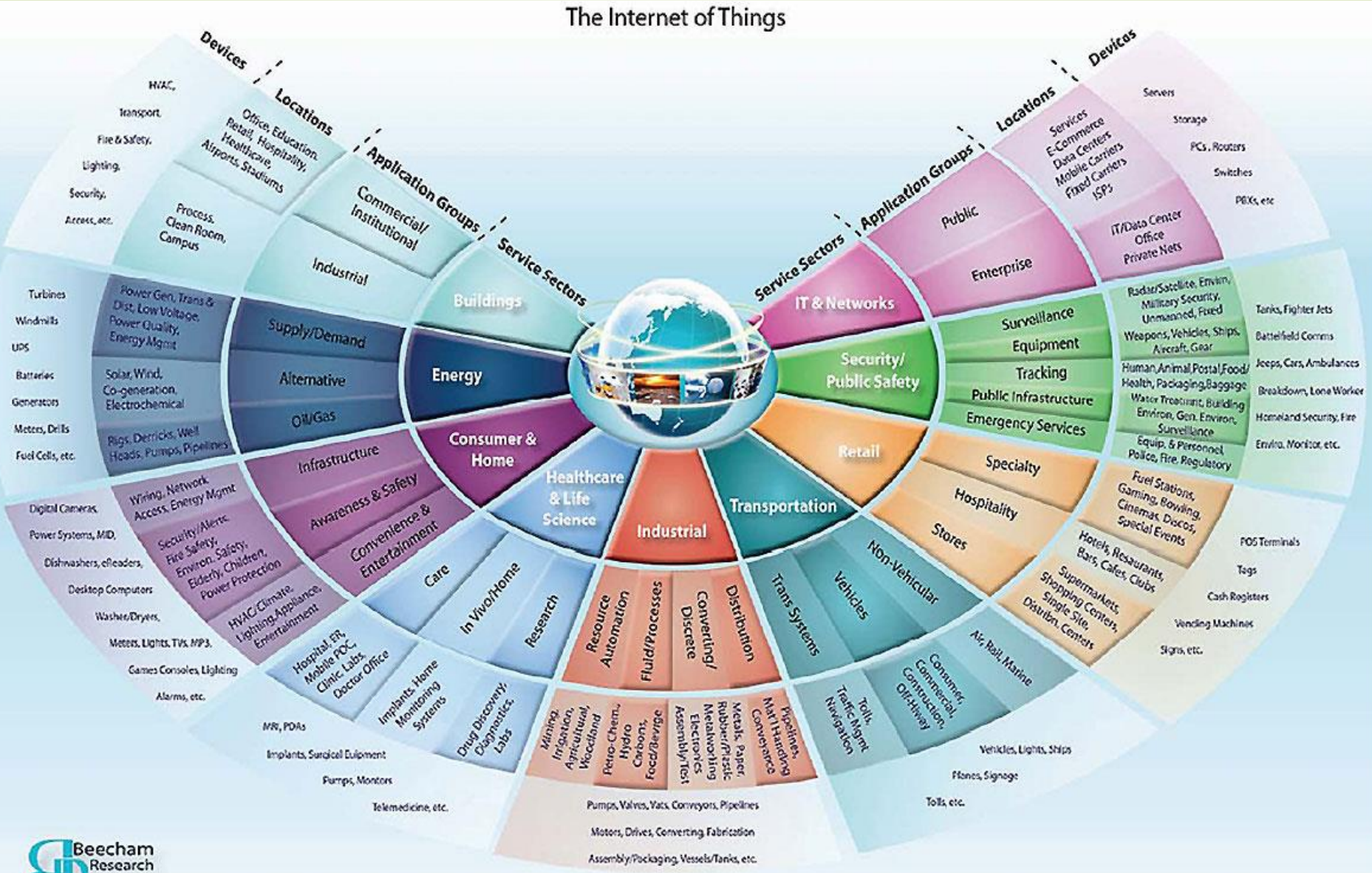
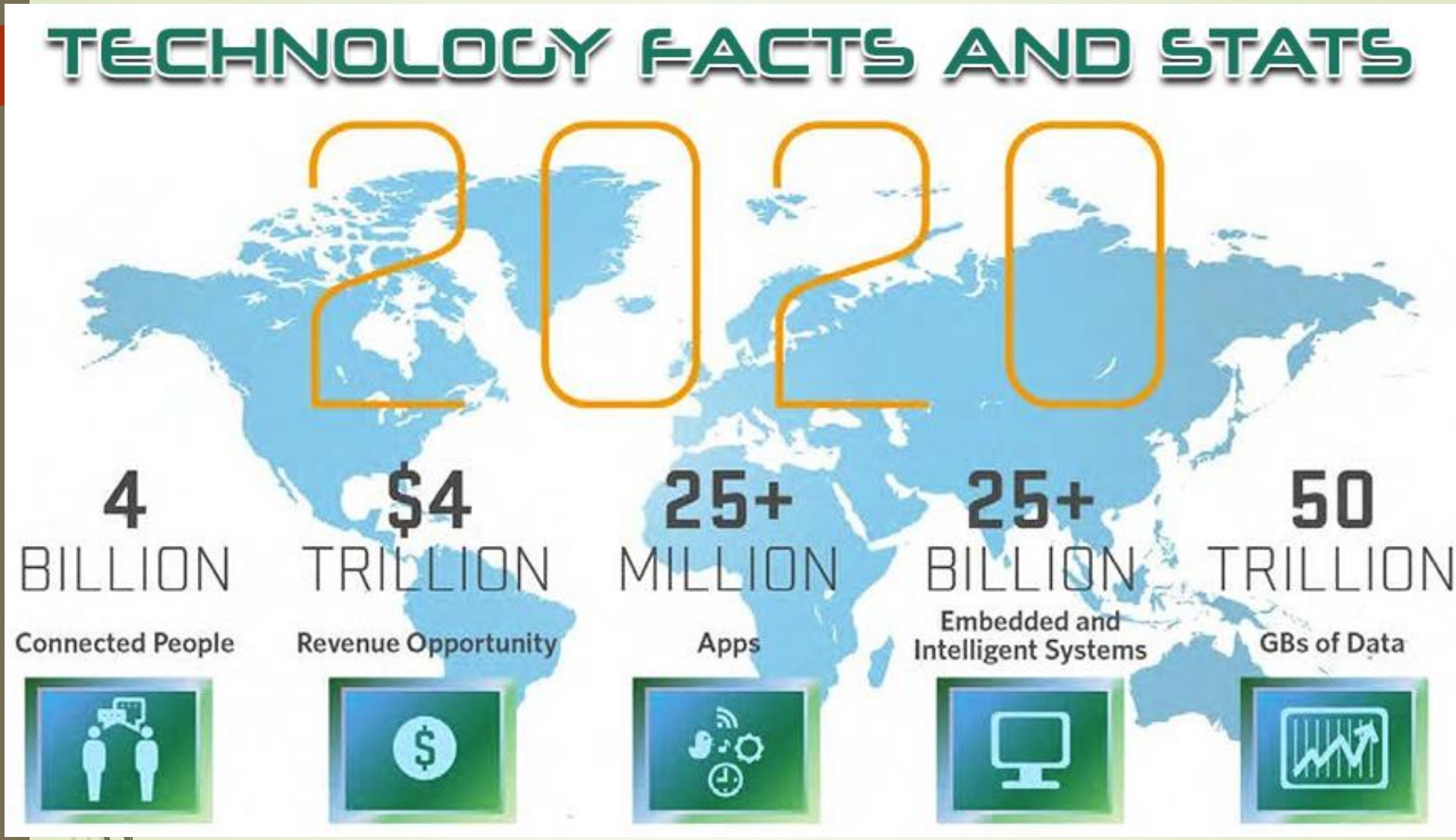
intel
Intelligent Systems


The Internet of Things
Devices
Locations
Application Groups
Service Sectors
HVAC,
Transport,
Fire & Safety,
Lighting,
Security,
Access, etc.
Office, Education, Retail, Hospitality, Healthcare, Airports, Stadiums
Process, Clean Room, Campus
Commercial/ Institutional
Industrial
Buildings
Energy
Consumer & Home
Healthcare & Life Science
Industrial
Transportation
Retail
Security/ Public Safety
IT & Networks
Public
Enterprise
Services
E-Commerce
Data Centers
Mobile Carriers
Fixed Carriers
ISPs
Servers
Storage
PCs, Routers
Switches
PBXs, etc
IT/Data Center
Office
Private Nets
Turbines
Windmills
UPS
Batteries
Generators
Meters, Drills
Fuel Cells, etc.
Power Gen, Trans & Dist, Low Voltage, Power Quality, Energy Mgmt
Solar, Wind, Co-generation, Electrochemical
Rigs, Derricks, Well Heads, Pumps, Pipelines
Supply/Demand
Alternative
Oil/Gas
Digital Cameras,
Power Systems, MID,
Dishwashers, eReaders,
Desktop Computers
Washer/Dryers,
Meters, Lights, TVs, MP3,
Games Consoles, Lighting
Alarms, etc.
Wiring, Network Access, Energy Mgmt
Security/Alerts: Fire Safety, Environ. Safety, Elderly, Children, Power Protection
HVAC/Climate, Lighting, Appliance, Entertainment
Infrastructure
Awareness & Safety
Convenience & Entertainment
Hospital, ER, Mobile POC, Clinic, Labs, Doctor Office
Implants, Home Monitoring Systems
Drug Discovery, Diagnostics, Labs
MRI, PDAs
Implants, Surgical Equipment
Pumps, Monitors
Telemedicine, etc.
Care
In Vivo/Home
Research
Resource Automation
Fluid/Processes
Converting/ Discrete
Distribution
Mining, Irrigation, Agricultural, Woodland
Petro-Chem., Hydro Carbons, Food/Beverage
Electronics Assembly/Test
Metals, Paper, Rubber/Plastic
Pipelines, Mat'l Handling, Conveyance
Pumps, Valves, Vats, Conveyors, Pipelines
Motors, Drives, Converting, Fabrication
Assembly/Packaging, Vessels/Tanks, etc.
Trans Systems
Vehicles
Non-Vehicular
Tolls, Traffic Mgmt, Navigation
Consumer, Commercial, Construction, Off-Hiway
Air, Rail, Marine
Vehicles, Lights, Ships
Planes, Signage
Tolls, etc.
Specialty
Hospitality
Stores
Hotels, Restaurants, Bars, Cafes, Clubs
Supermarkets, Shopping Centers, Single-Site, Distribtn. Centers
Fuel Stations, Gaming, Bowling, Cinemas, Discos, Special Events
POS Terminals
Tags
Cash Registers
Vending Machines
Signs, etc.
Surveillance
Equipment
Tracking
Public Infrastructure
Emergency Services
Radar/Satellite, Environ, Military Security, Unmanned, Fixed
Weapons, Vehicles, Ships, Aircraft, Gear
Human, Animal, Postal, Food/ Health, Packaging, Baggage
Water Treatment, Building Environ, Gen. Environ, Surveillance
Equip. & Personnel, Police, Fire, Regulatory
Tanks, Fighter Jets
Battlefield Comms
Jeeps, Cars, Ambulances
Breakdown, Lone Worker
Homeland Security, Fire
Enviro. Monitor, etc.
Beecham Research



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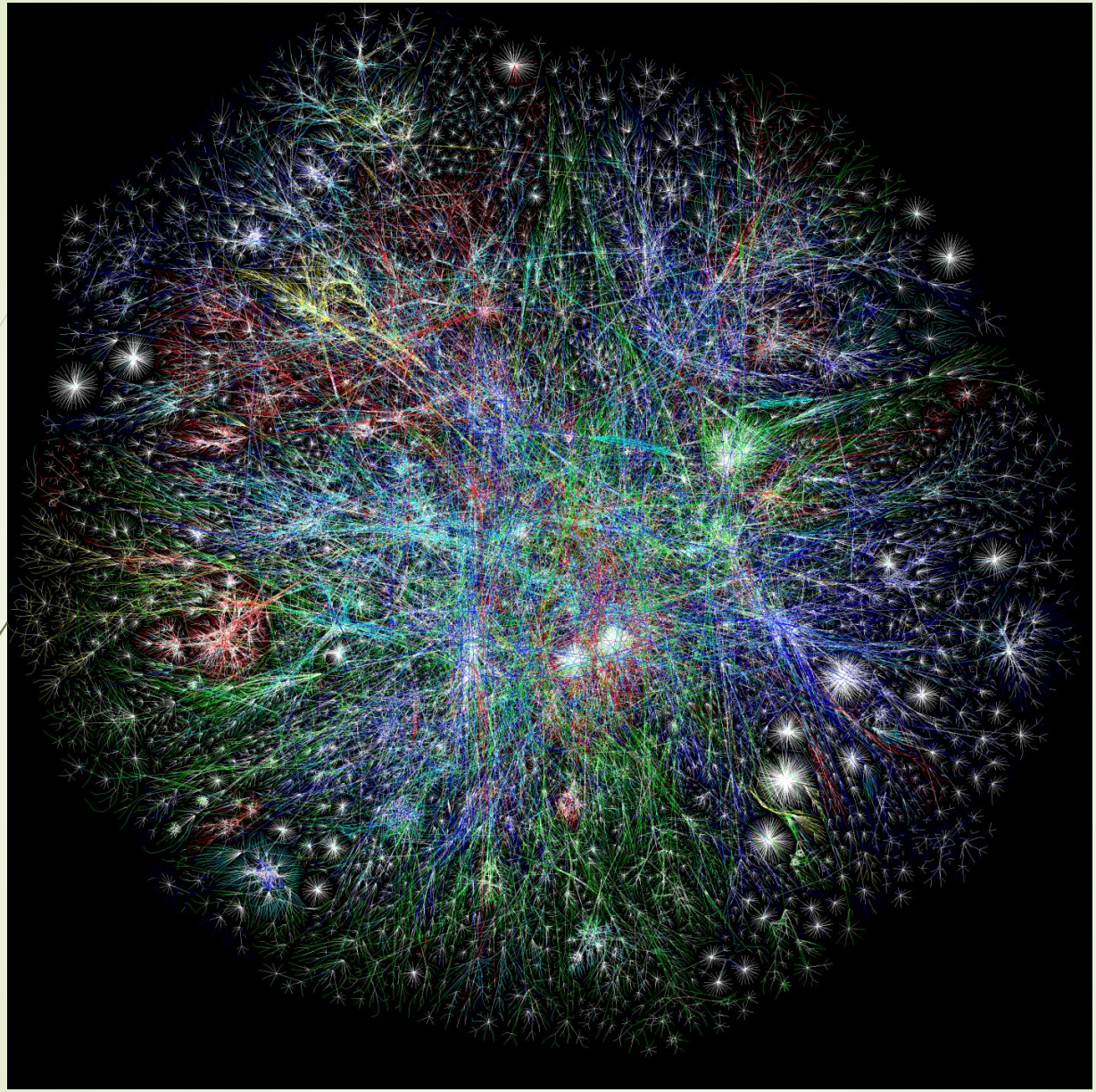
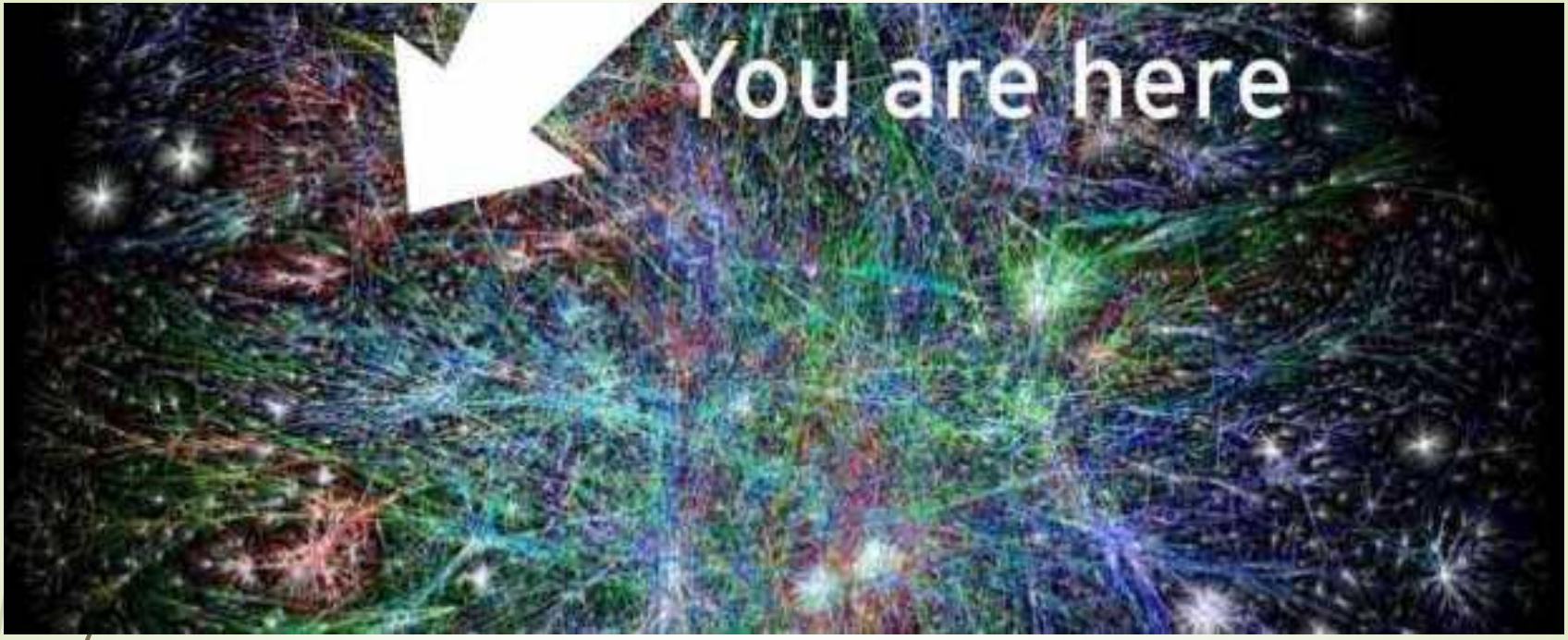
What does this mean?

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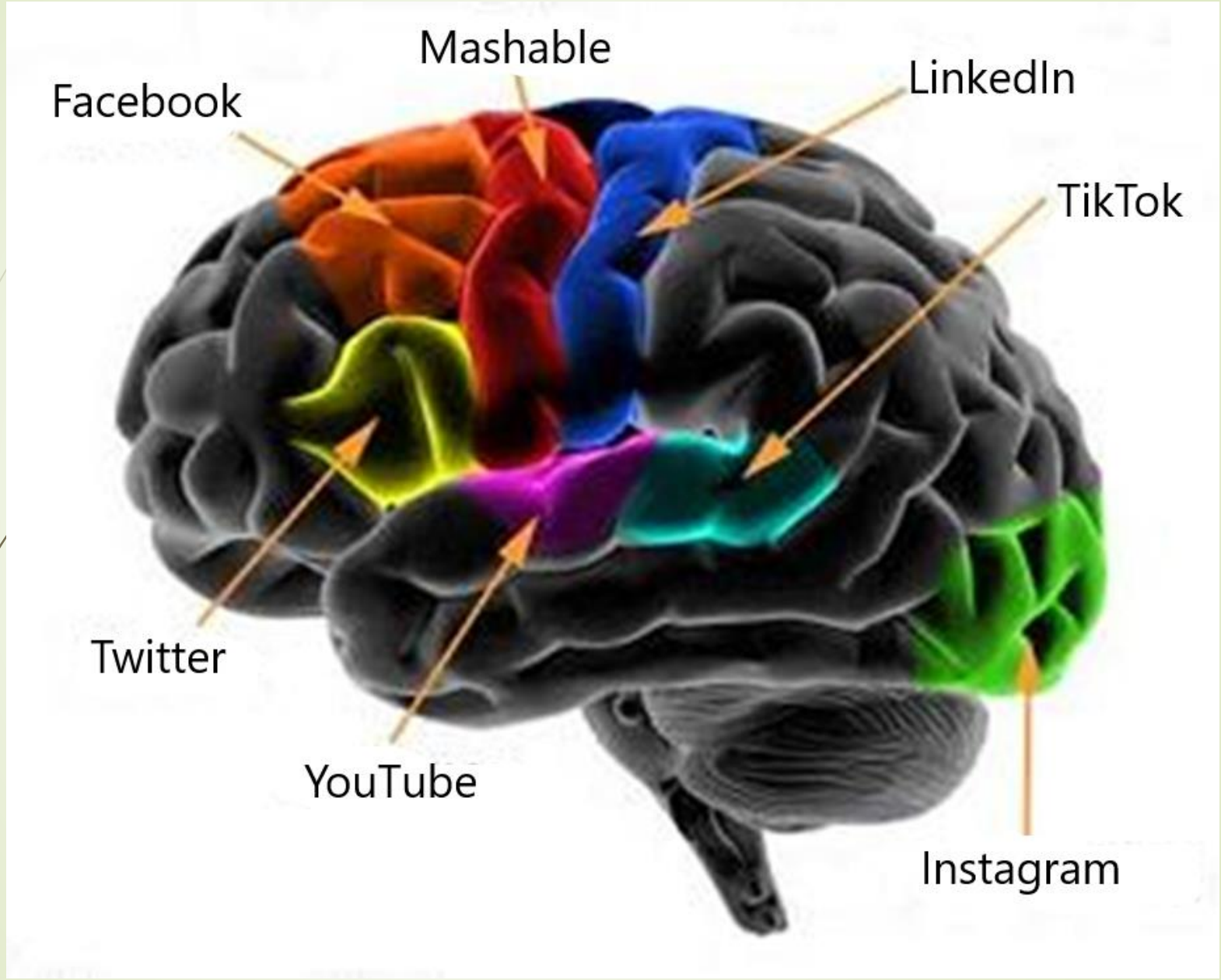

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What is the Path Forward?

Systems Theory

- Ludwig von Bertalanffy developed General Systems Theory in 1928, believing that one general organizing theory could unite different sub systems such as circulatory systems, star systems, computer systems, etc.
- In the 1960's Kenneth Boulding expanded systems theory to include human, economic and other behavior embedded in a larger interconnected system
- Boulding envisioned humans moving from our current "civilized society" to a "post-civilized society".

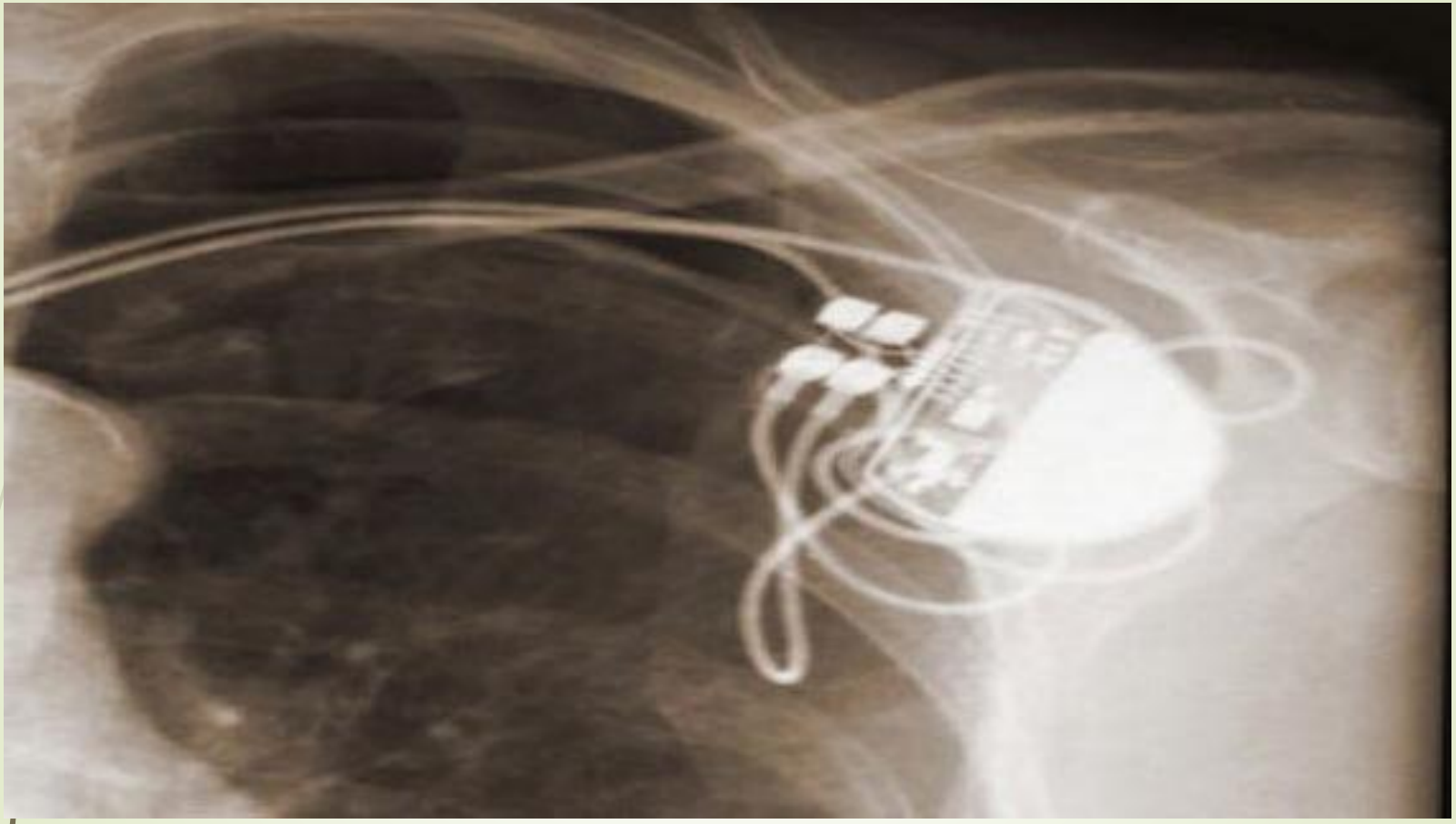
Post Human

- A post-human is a hypothetical future being whose basic capacities so radically exceed those of present humans as to be no longer unambiguously human by our current standards.
- Post-humans could be a symbiosis of human and artificial intelligence
- Or uploaded consciousnesses

Post Human

- or the result of making many smaller but cumulatively profound technological augmentations to a biological human through:

genetic engineering	pyschoparmacology
life extension therapies	neural interfaces
advanced information management tools	memory enhancing drugs
wearable or implanted computers	cognitive techniques



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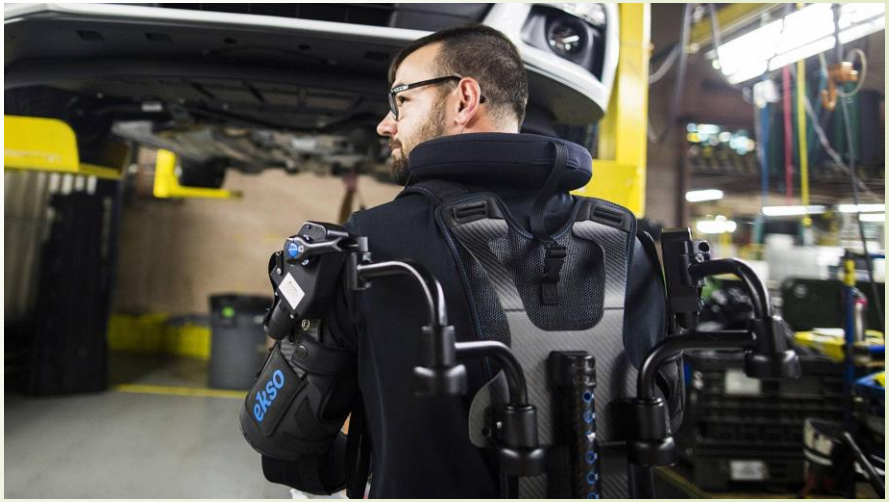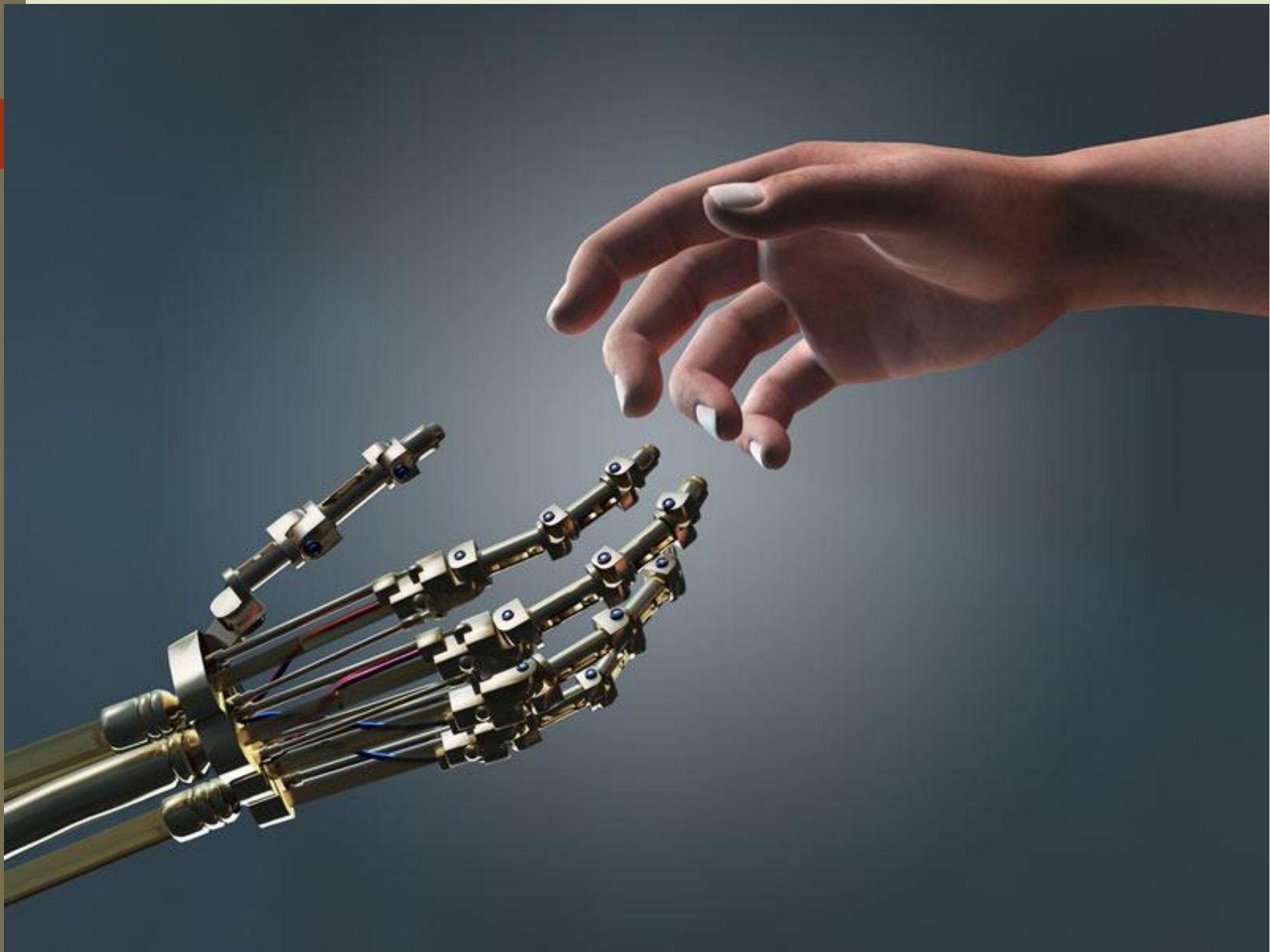
Ford Assembly Line