IoT Solutions & Challenges

Keynote Speech – Inaugural Colombo IoT Meetup

Aruna Dissanayake

By 2025

34 cities worldwide will have a population

Over 10 Million

Cities consume 66% of the world's energy

Cities will spend

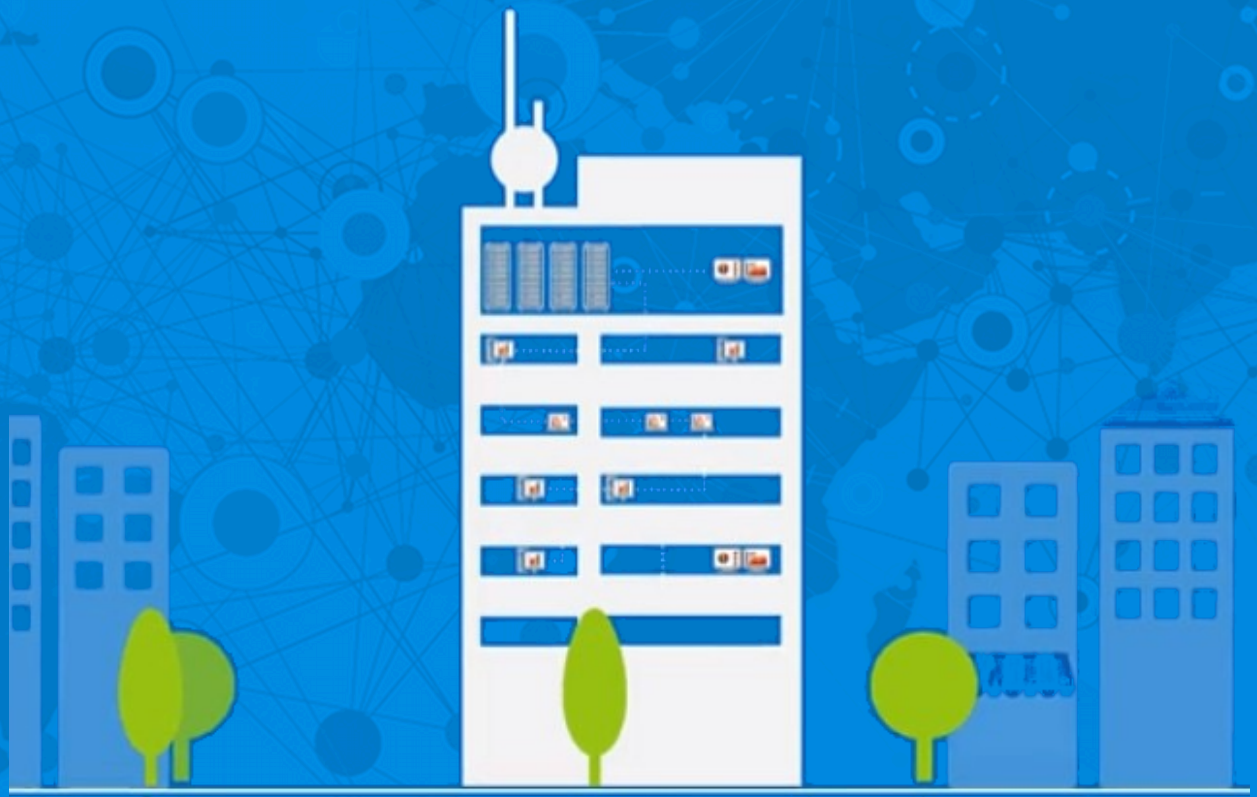
$41 trillion

In the next 20 years on infrastructure upgrades for IoT

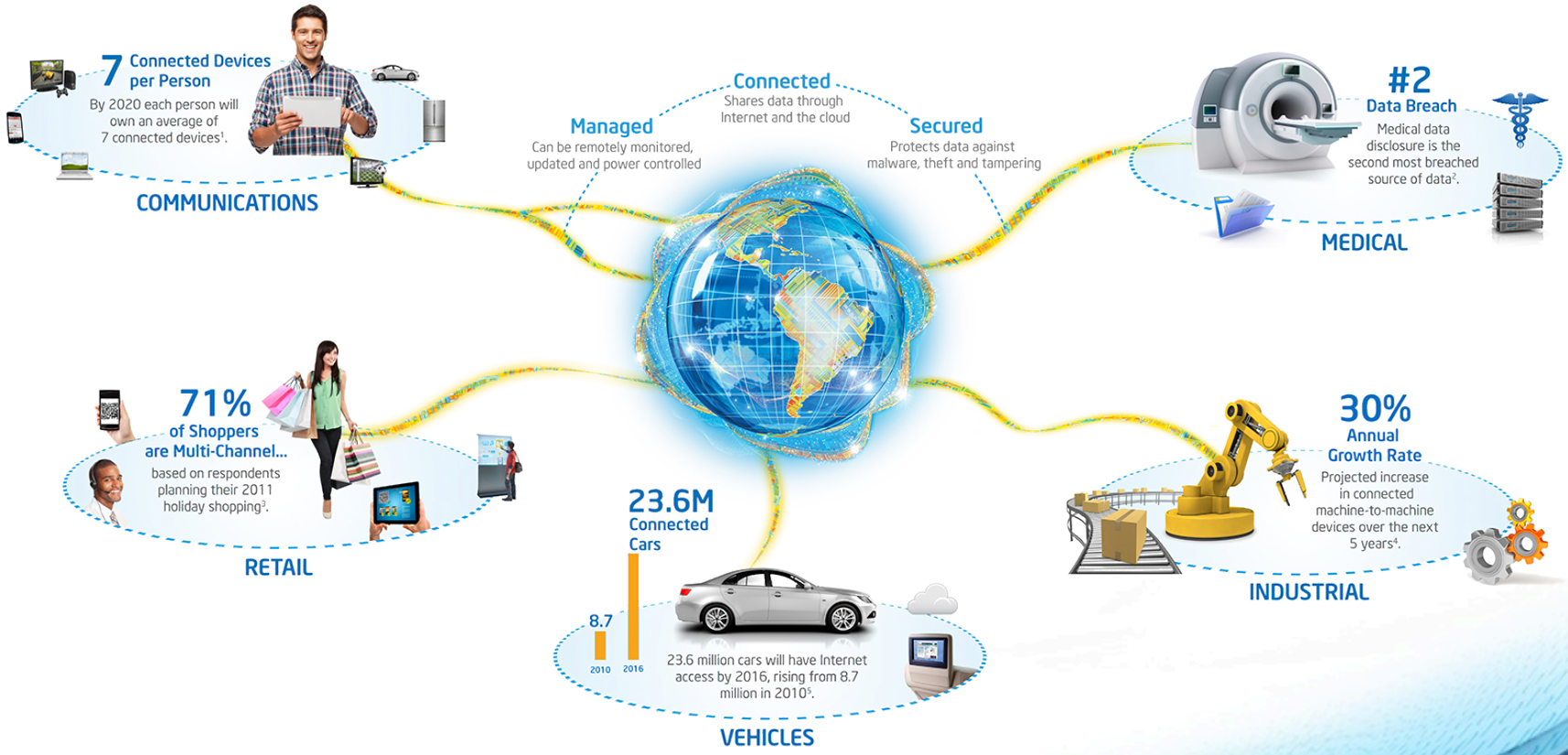
San José Smart City Project

foster 25,000 CleanTech jobs in 15 years

IoT transforms our businesses, our lives, and our world in countless ways.



The Internet of Things is…
Intelligence Everywhere



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Iot is Driving Transformation of Businesses…

50B
DEVICES

44
ZETABYTES

COST OF SENSORS PAST 10 YEARS	COST OF BANDWIDTH PAST 10 YEARS	COST OF PROCESSING PAST 10 YEARS
2X ↓	**40X** ↓	**60X** ↓

Five Key Tenants of IoT Solutions

Monetize HW, SW, and Data Management

Actionable Analytics

Data Normalization

Connectivity, Device Discovery, and Provisioning

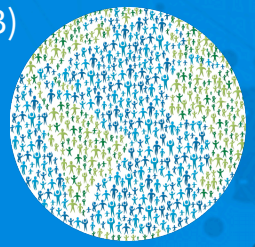
Security as the Foundation – HW and SW

Can We Sustain
this device growth?

212 BILLION

Total number of
Available sensor
Enabled objects
By 2020

212B is **28x** the total population of the world (7.5B)



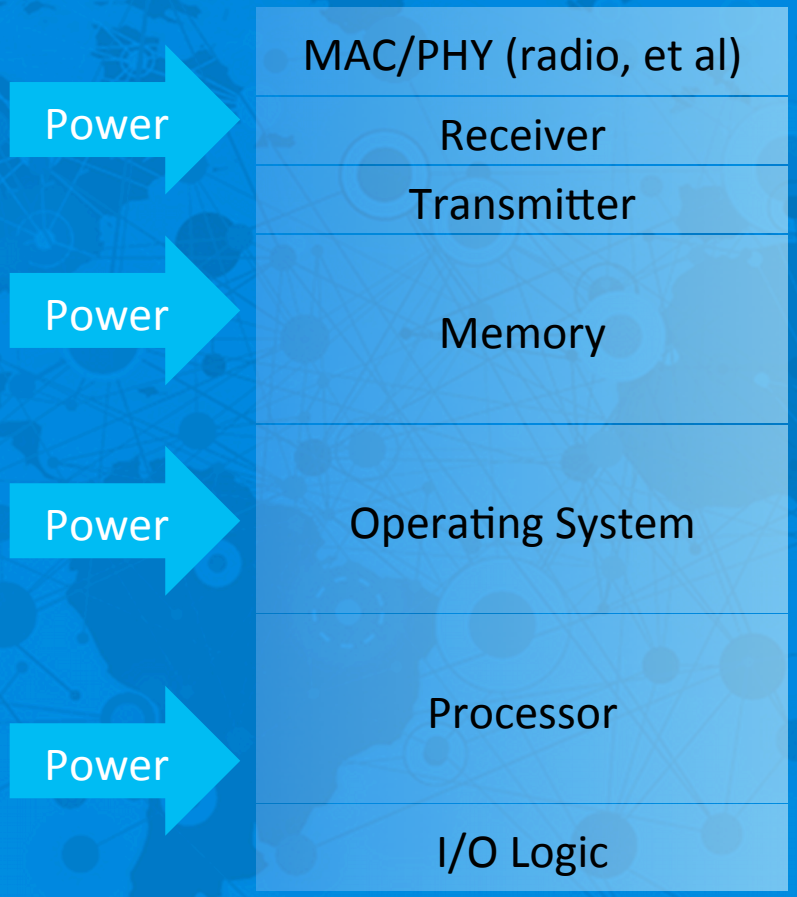
30 BILLION

Sensor enabled objects
Connected to networks
By 2020

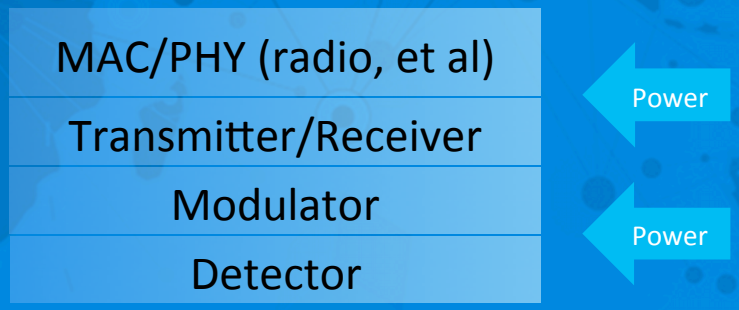
SOFTWARE AND SERVICES

* Source: IInternational Data Corporation (IDC)

IP Stack Doesn't Suite Most Iot Devices



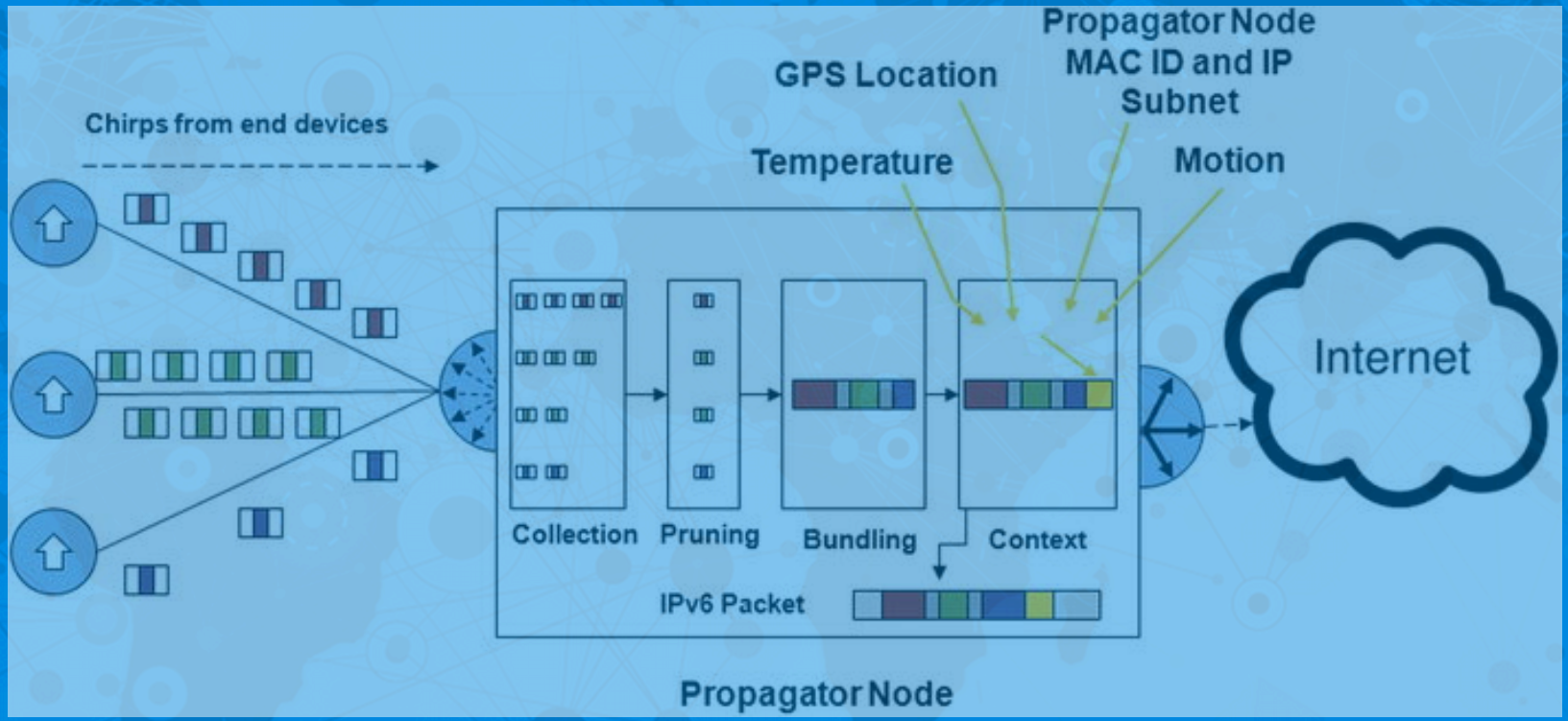
IP-enabled device



IoT protocol device

* Source: Rethinking the Internet of Things: A Scalable Approach to Connecting Everything By: Francis daCosta

Adding Intelligence to Chirps



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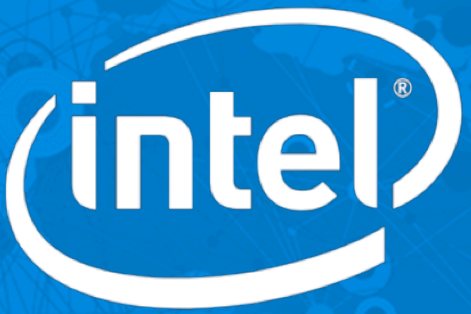

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