

Digital Singularity

A Case for Humanity

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AVASANT



Digital Singularity will unleash artificial intelligence that will grow at an exponential rate, and ultimately surpass humanity

Digital Singularity will free humankind to achieve greatness and reach our true potential

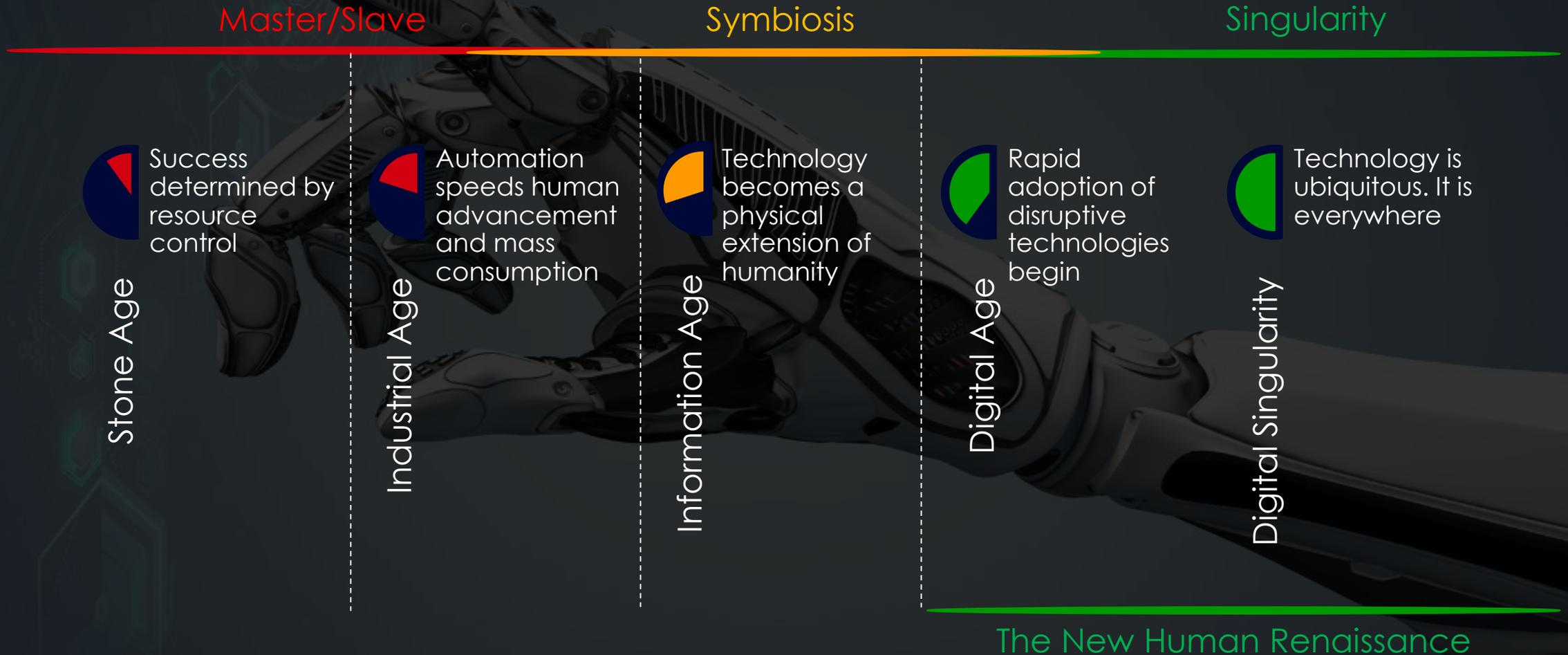


Digital Singularity

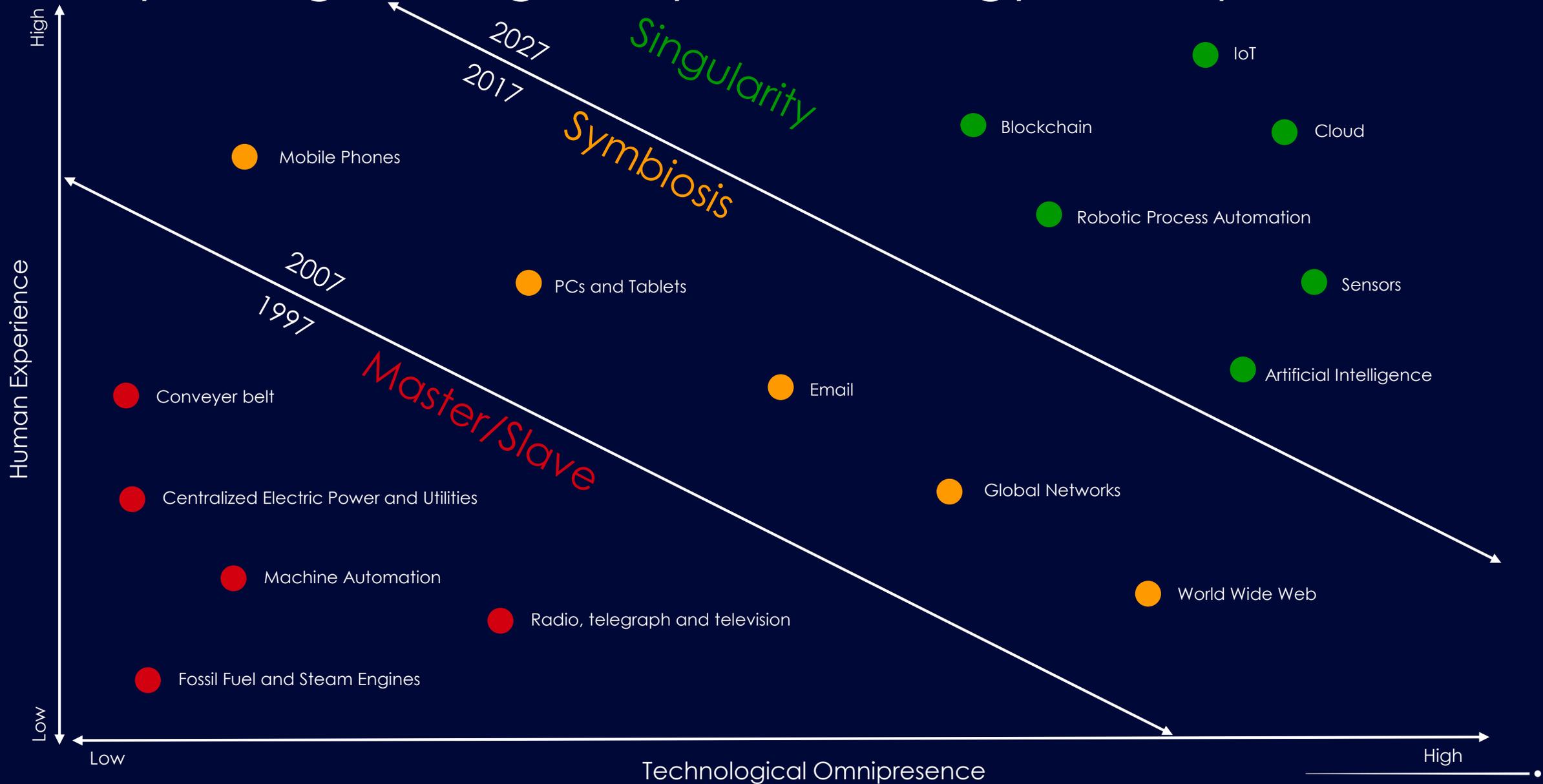
The point where
technological
omnipresence
and human
experience
converge.



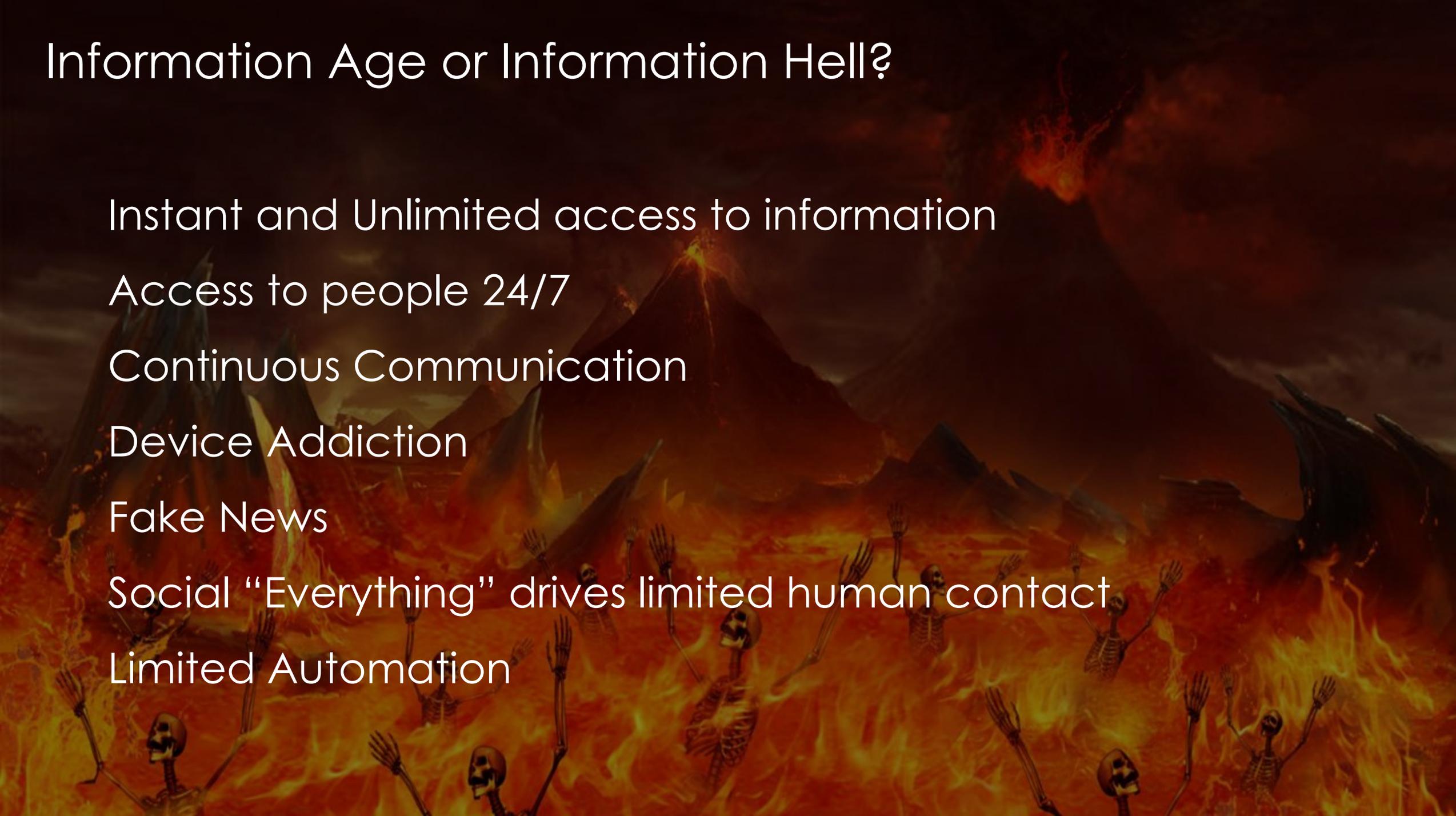
Technology and Humanity have always had an intimate connection



Journey to Digital Singularity: Technology Prerequisites



Information Age or Information Hell?



Instant and Unlimited access to information

Access to people 24/7

Continuous Communication

Device Addiction

Fake News

Social “Everything” drives limited human contact

Limited Automation

We must transform from making incremental gains to Giant Leaps...



Incremental Thinkers
Has innovation become incremental?



From Innovators to Upgraders?
How did we transition from breakthrough innovations to incremental upgrades?



Creativity Stagnation
Have we reached a point of stagnation?

We must Dare to Dream again

What have we become?

We must remember...



So, where are the moonshots and “giant leaps”?

1Mhz
+
4KB

50 years ago, we travelled to the moon with far less power than our phones today



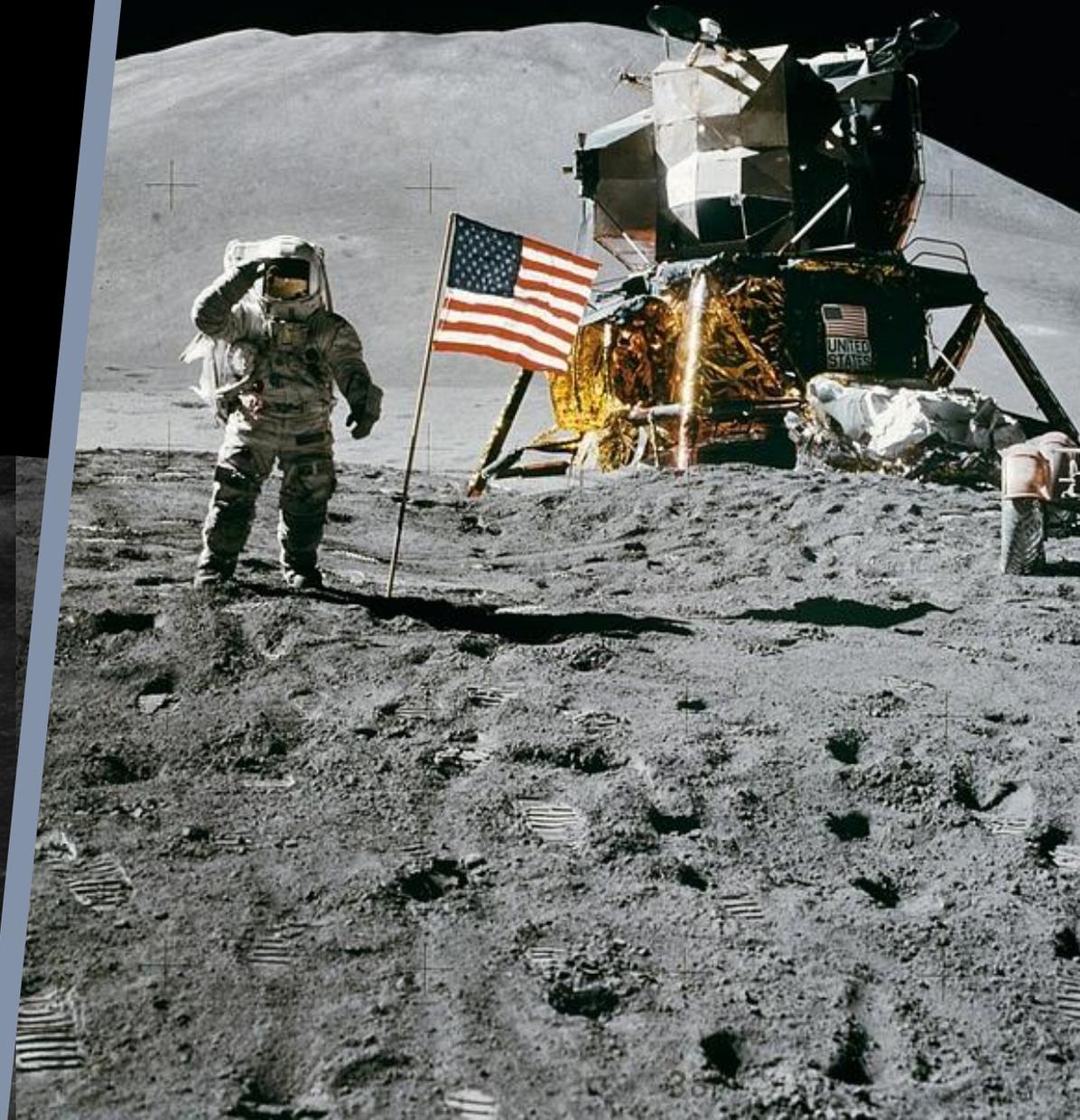
400,000
+

More than 400,000 engineers, scientists and technicians to accomplish the moon landings

8 years

It took 8 years for the first human to travel to the moon (1961 – 1969)

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The Digital Age is Born: Four Pillars of Singularity

Hyper-Convergence

Digital Moments

Digital Twins

Augmented Reality



Digital Singularity Achieved

Avasant RadarView™

Technology Prerequisites



Four Pillars of Digital Singularity



Rules of the New Economy

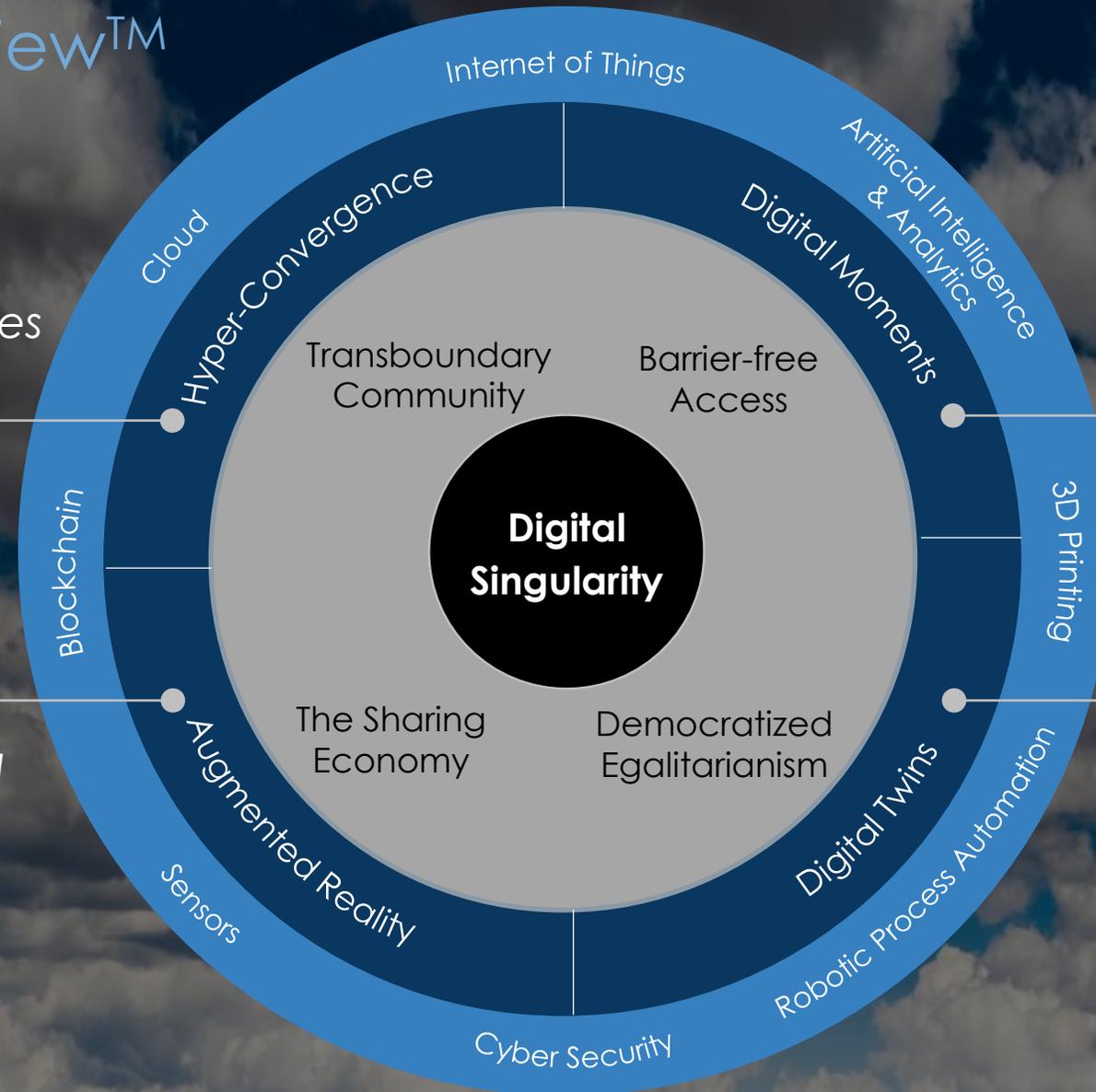


Bringing multiple technologies to create something new

A transaction within a transaction

Multi-sensory, real-time data that enhances experiences

A real-time virtual model of your physical self



How will we live and work in this Digital Singularity? AVASANT

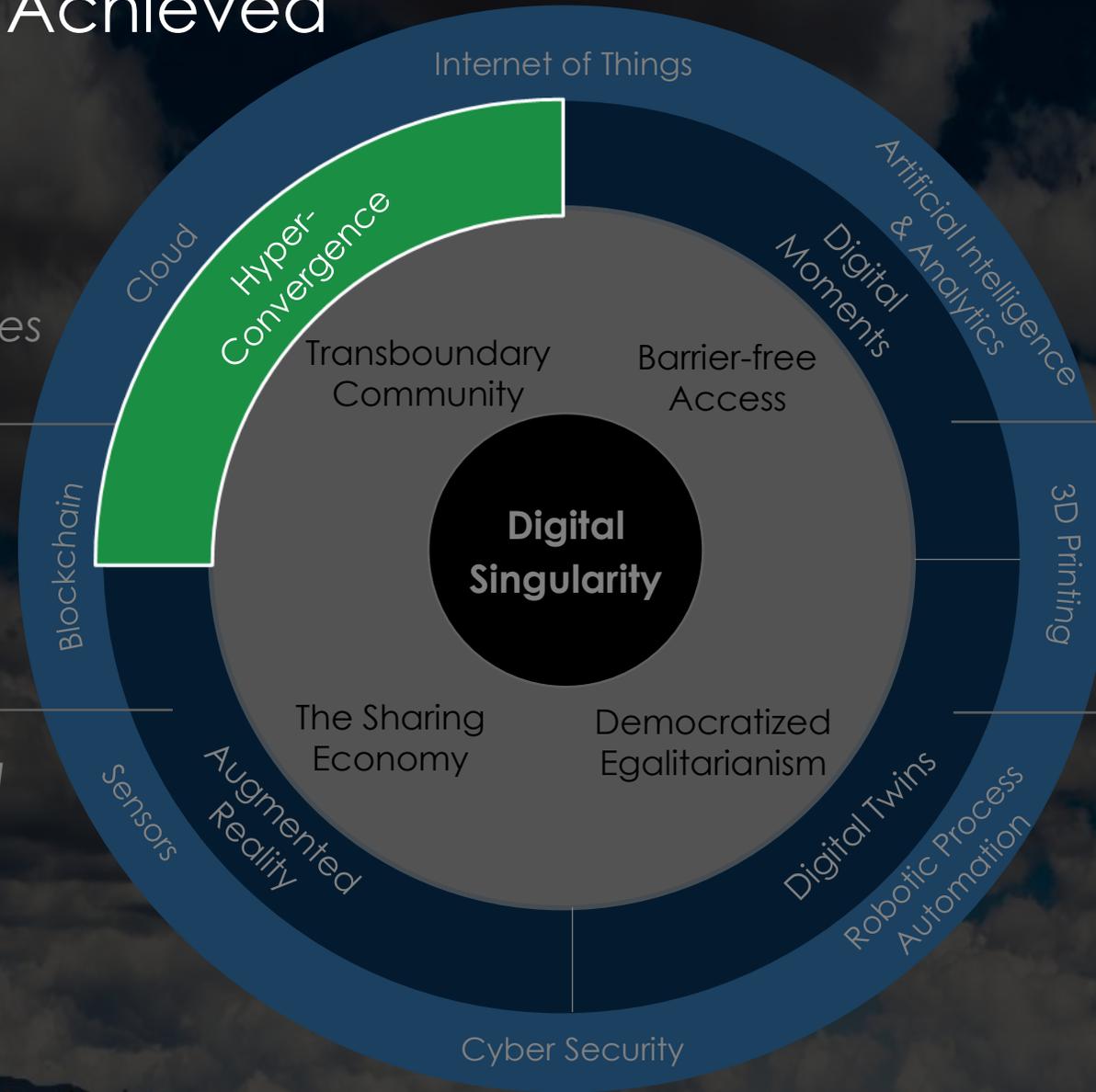
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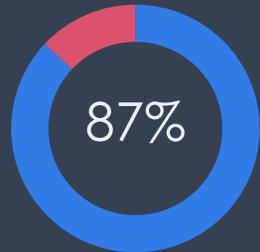
A real-time virtual model of your physical self



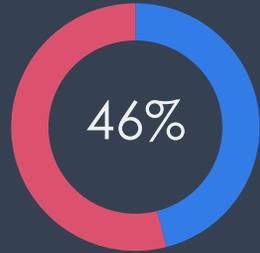
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Hyper-Convergence Case Study

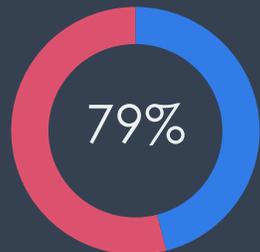
The concept of bringing two or more independent technologies to create something with a whole new purpose and function.



Of Americans – *'Smartphone Never Leaves My Side'*



Of Millennials expect a vehicle to do everything a smartphone can



Of Americans are now shopping online

Toyota e Palette



MULTI-PURPOSE MOVING SPACE



ON DEMAND RETAIL EXPERIENCE



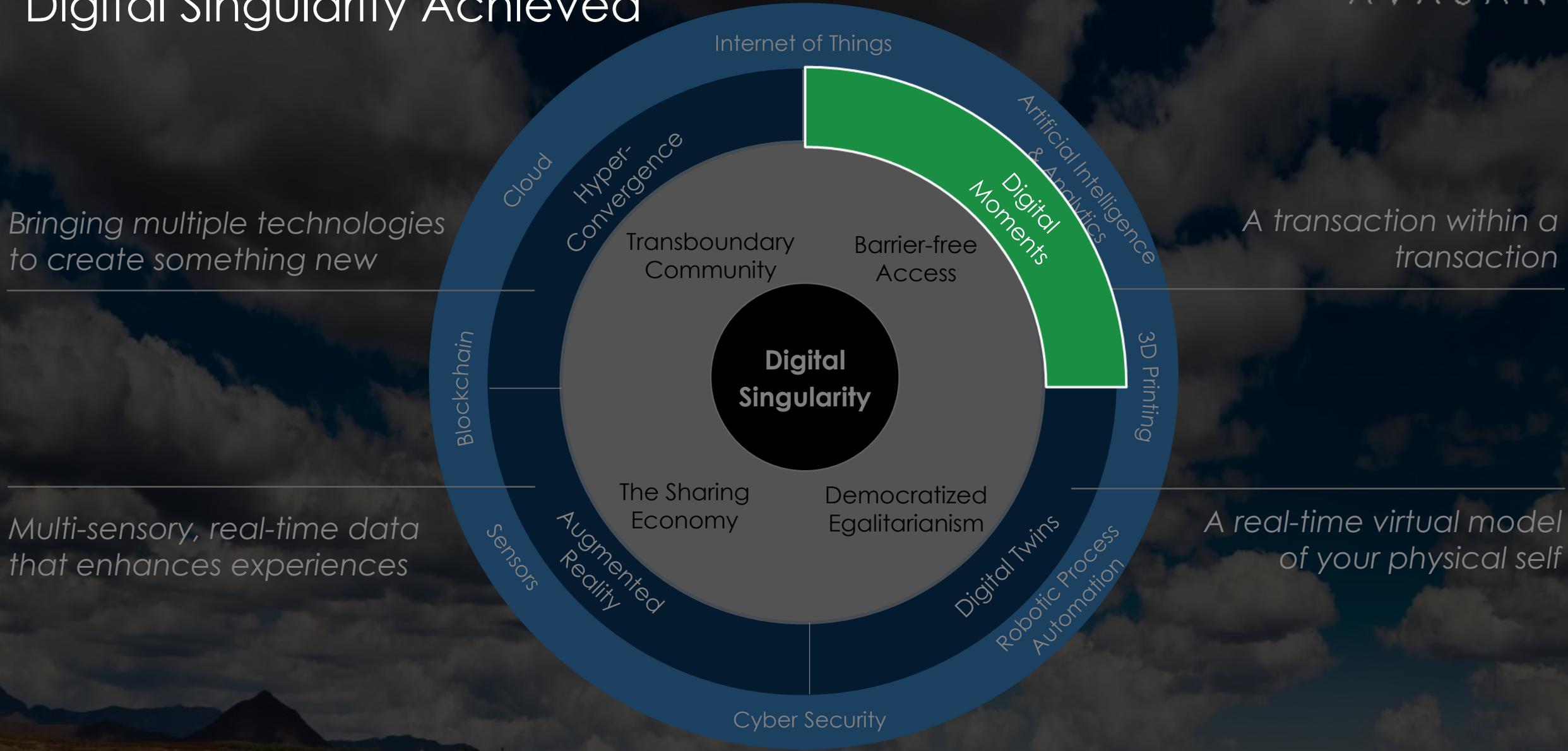
MOBILE PERSONAL SHOPS



MULTI-FUNCTIONALITY



Digital Singularity Achieved



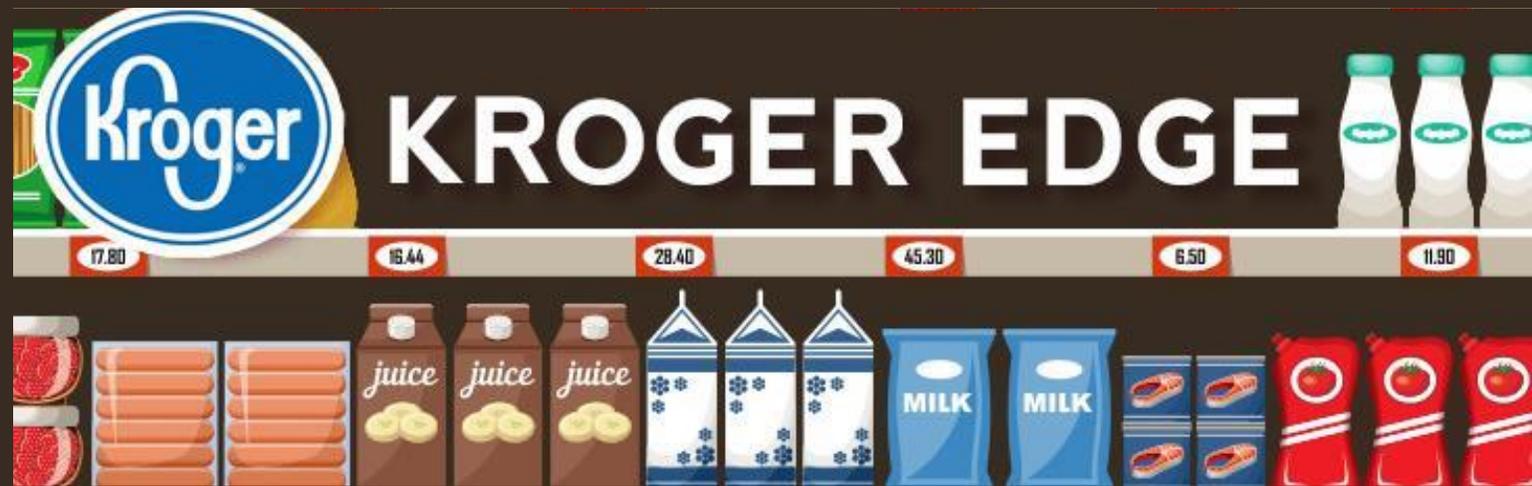
How will we live and work in this Digital Singularity?

Digital Moments Case Study

A transaction within a transaction. Digital Moments can happen anywhere, in the background, and simultaneously with other activities.

Real Time Discounts on your phone for products you have purchased in the past

Live Warnings of foods that may impact your dietary restrictions, allergies, or preferences. ****WARNING THIS PRODUCT CONTAINS NUTS****



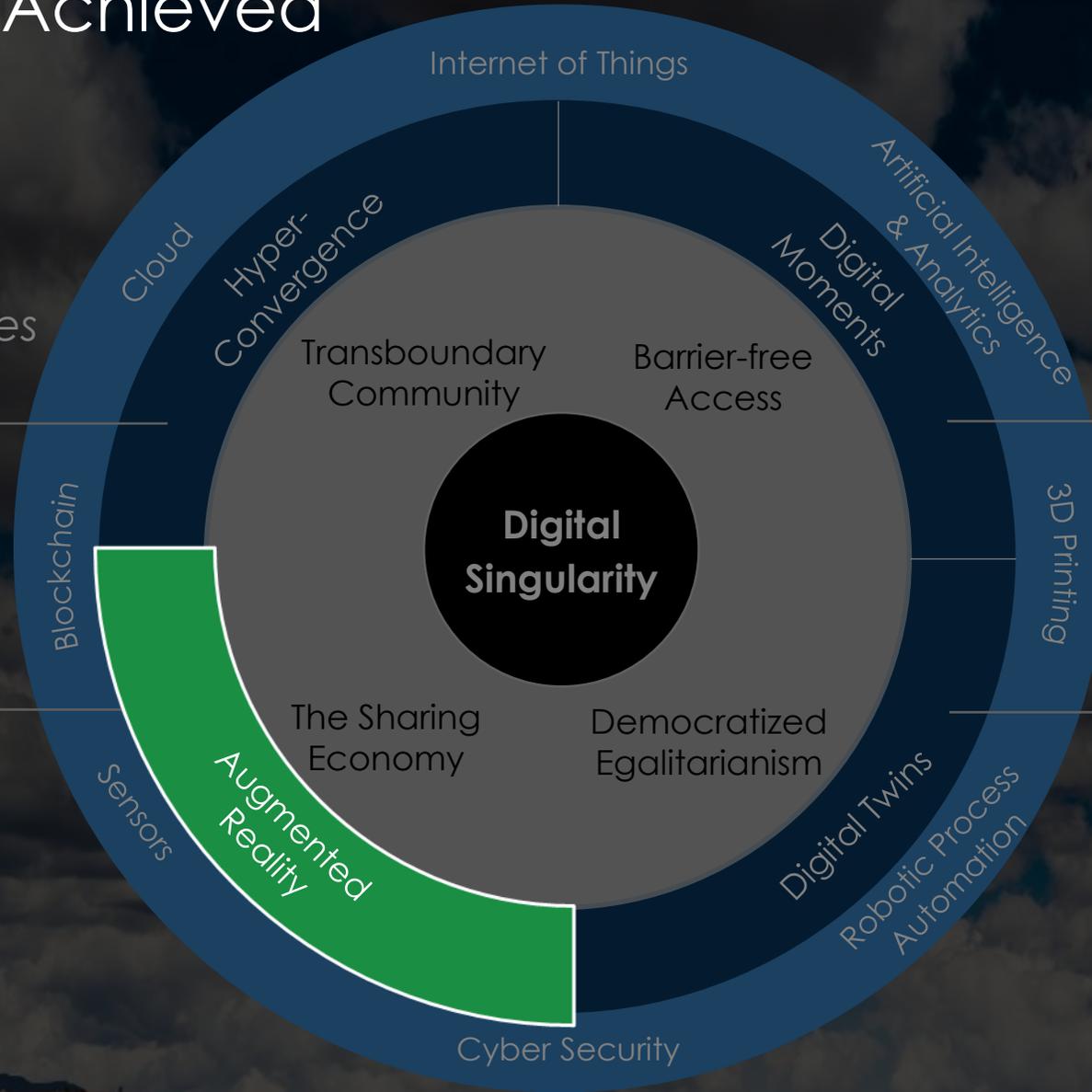
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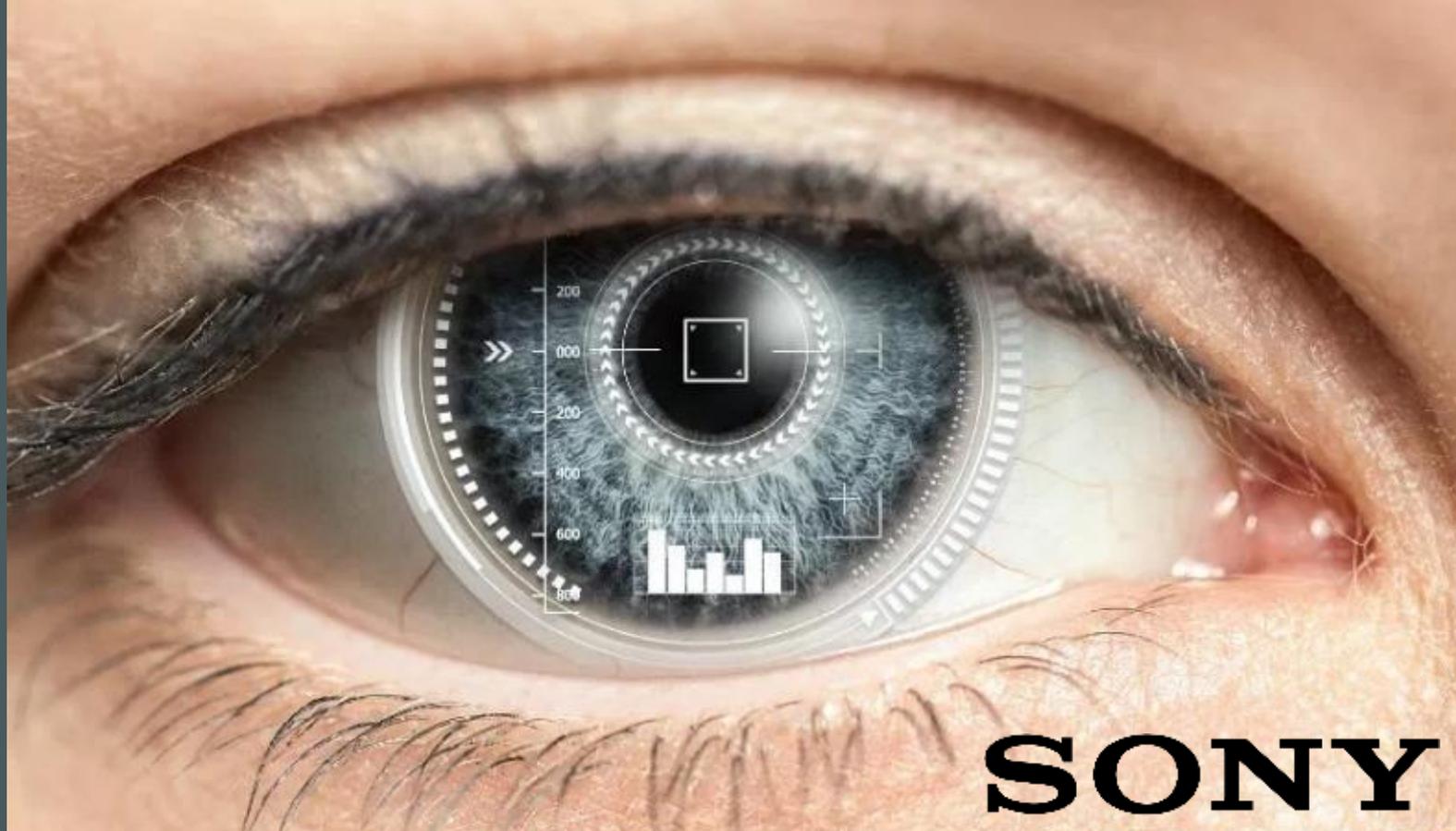
Augmented Reality Case Study

Multi-sensory and real-time data that is designed to enhance analog experiences.

Education: K-12 using AR in learning programs



People willing to pay more for a product they can experience in AR



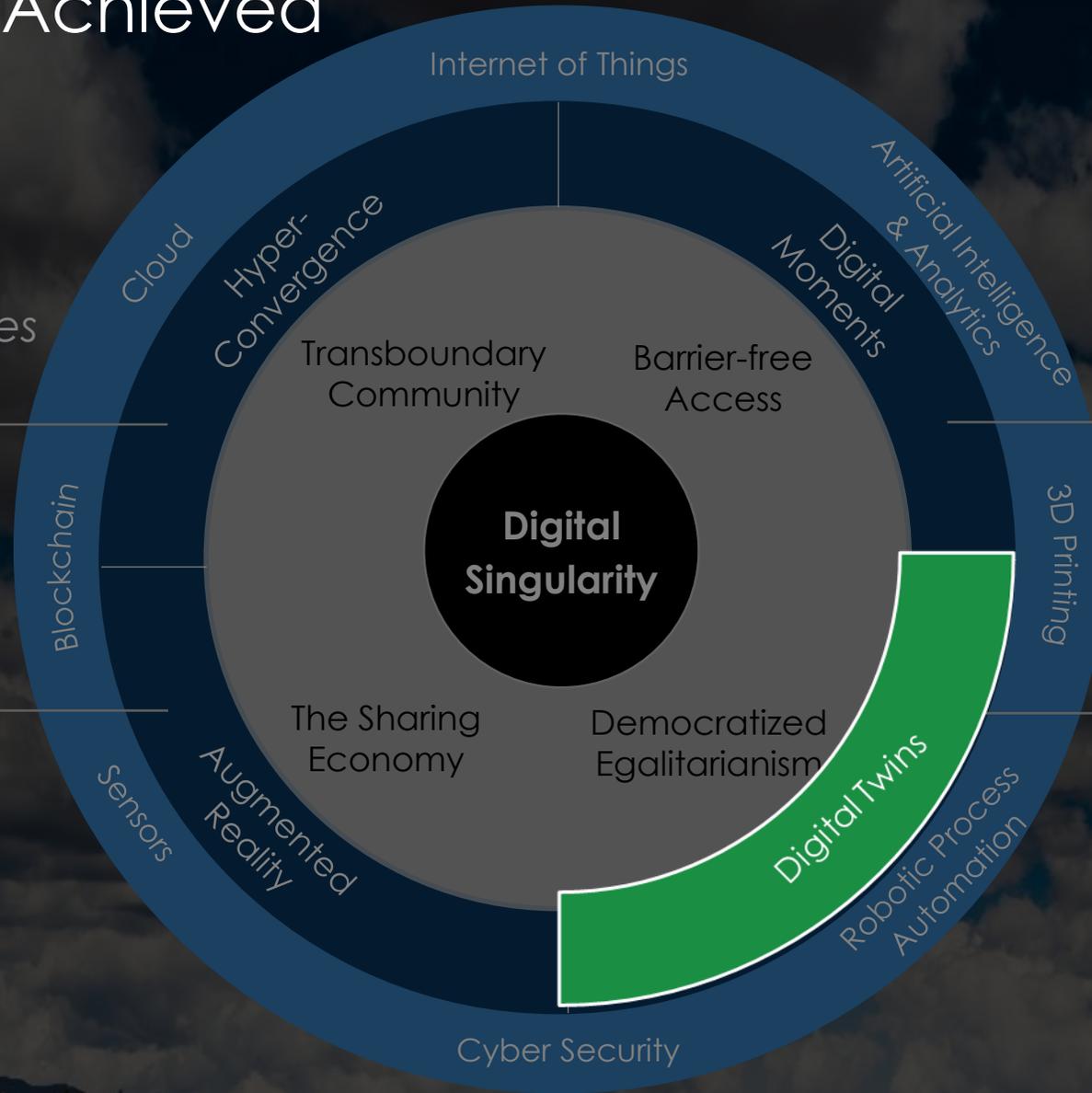
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How will we live and work in this Digital Singularity?

Digital Twins

A real-time virtual model of your physical self that is transacting and acting on your behalf through automation without rest.

2.5

Quintillion bytes of data generated everyday

95%

US Individuals whose location is known via mobile phones

100x

Growth in personal data points per person

Digital Twins



Relationship Management



Financial Management



Security Management



Social Communities



Work and School Life



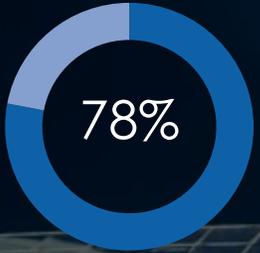
Purchasing Transactions

Digital Enterprise is Born

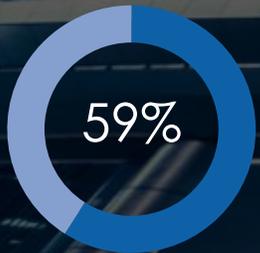
The Digital Enterprise is driven by specific needs and demands. It can adapt to the personalized requirements of its partners, stakeholders, employees, and customers.



88% Executives undergoing formal digital transformation efforts in 2017

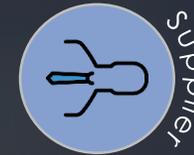


78% Enterprise Digital Transformation Initiatives involve executives other than the CIO



59% Business Processes automated by transformation-focused organizations in 2017

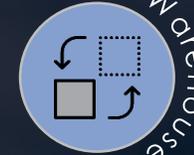
Traditional Value Chain



Supplier



Manufacturing



Warehouse



Distribution



Retail



Customer

Digital Enterprise Value Chain



Individual



Personalize



Advisors & Supplier



Profile



Build



Deliver

Think 10X

“True innovation happens when you try to improve something by 10 times rather than by 10%.”



Google X – The Moonshot Factory
Combines - Science, Technology,
Invention and Innovation



Develop new technologies to solve
some of the world's hardest
problems

Google

X
The
Moonshot
Factory

AVASANT

Urban Air Mobility: A moonshot solution for traditional on-the-ground activities



60 % Of the World's population will live in cities by 2030

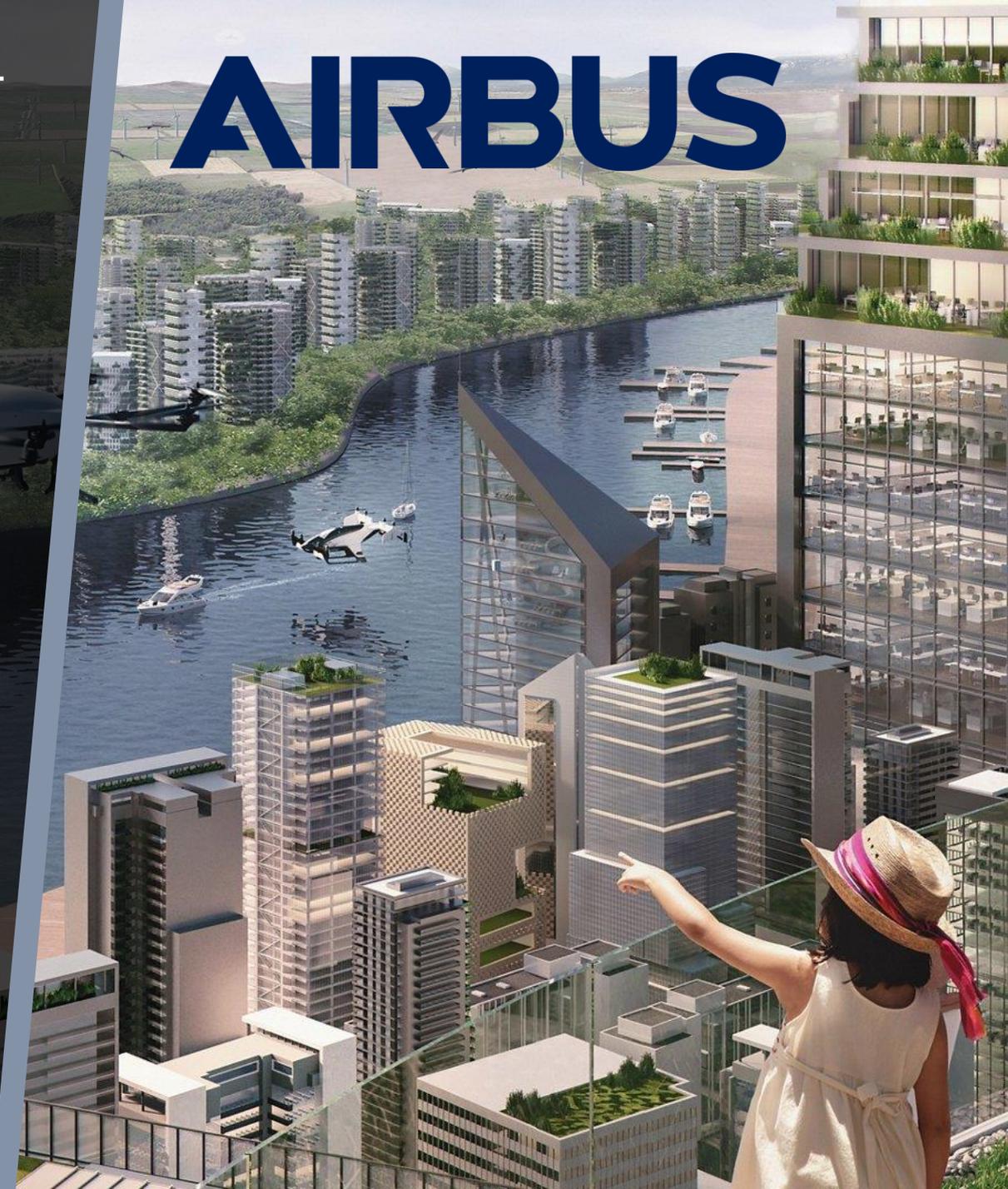


600 million people will commute everyday by 2030



FAA estimates 7 million drones in the sky by 2020, with 2.6 million in the commercial space

AIRBUS



The 5G leap to drive Government Transformation and enable digital resilience



2017 Hurricanes affected 50% of Mobile Network Operators in Caribbean, with some experiencing over 95% infrastructure damage



Annual losses due to climate changes are highest in SIDS, of up to 9% of GDP



The Caribbean can leap frog and deploy next gen 5G infrastructure, 1500X faster than current speeds in the region



Digital Singularity
drives a new Age of
Hyper-Sustainability



Hyper-Sustainability

Solving grand challenges, creating an all-encompassing digital experience to support socio-economic development and build sustainable, resilient and inclusive societies

Requires collaboration

To achieve sustainability



How will life change in 2030?

The Social Imperative: We will work differently . . .



 SUSTAINABLE DEVELOPMENT GOALS

Barrier Free Access

Sharing Economy

Digital Singularity

Any individual regardless of economic and social status or country has access to the global economy

Democratized Egalitarianism

Skills, resources and capabilities can be shared to develop new products, services, and solutions

Transboundary Communities

Individual voices are magnified and social movements are born via digital social platforms. The power of one to make a difference

Communicating with a group of people in a real-time, that utilizes our five senses where distance and location is of no consequence

How will life change in 2030?

The Digital Business Imperative: Businesses must . . .

Personalize products, services, and solutions and deliver them directly to individuals and customized to their needs

Utilize and invest in platforms that accept cryptocurrency and digital payment methods

Invest in the “Technology Prerequisites” to drive their success on the new digital economy

Prepare for changes in regulations that will impact their digital business models



SUSTAINABLE DEVELOPMENT GOALS

Individualized Demand

Digital Infrastructure

Digital Singularity

Digital Currencies

Government Regulations

How will life change in 2030?

The Establishment of Enlightened Regulatory Frameworks: Governments will . . .



SUSTAINABLE DEVELOPMENT GOALS

Protect people from abuses and runaway technologies (e.g. fake news, self driving cars, and genetic technologies)

Consumer Regulation

Regulate digital transactions to minimize tax evasion

Regulate digital payment methods and cryptocurrencies

Regulation of Digital Transactions

Extend individual protections of data and personal information

Digital Singularity

New Taxation Regulation

Regulation of Privacy

The Forces against Hyper Sustainability

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Global
Conflict

Countries break alliances with the fall of NAFTA, BREXIT, stress on NATO

Declining Multilateralism and rise in nationalistic policies

Trade Tariffs attempt to slow further globalization

Fake news is utilized to drive a wedge between people

Immigration Battles designed to keep low cost labor out

Borders vs.
Globalization

Fake
News

Social "Everything" drives less human contact and less mutual understanding

Technology Driven 'Hyper-Sustainability' can solve the Grand Challenges



1 billion

Nearly 1 billion youth lack basic mathematics, literacy, and business skills



783 million

People live below the international poverty line of US\$1.90 a day

Sustainable Education and Equality



3 billion

People rely on wood, coal, charcoal or animal waste for cooking and heating

Sustainable Energy and Environment

Government
Individual
Enterprise

Human Health and Safety



1 in 3

Persons suffer from some form of malnutrition

The United Nations SDGs drive the need and create focus...



“The Digital Age promises a future where humanity has the opportunity to reach its greatest potential . . .”

