

# The technology driven future in the 4th Industrial Revolution

*Robert Boccia*

*Twitter @RobertBoccia*

*CEO Leapfrog Innovation Technology Group*

**Leapfrog**

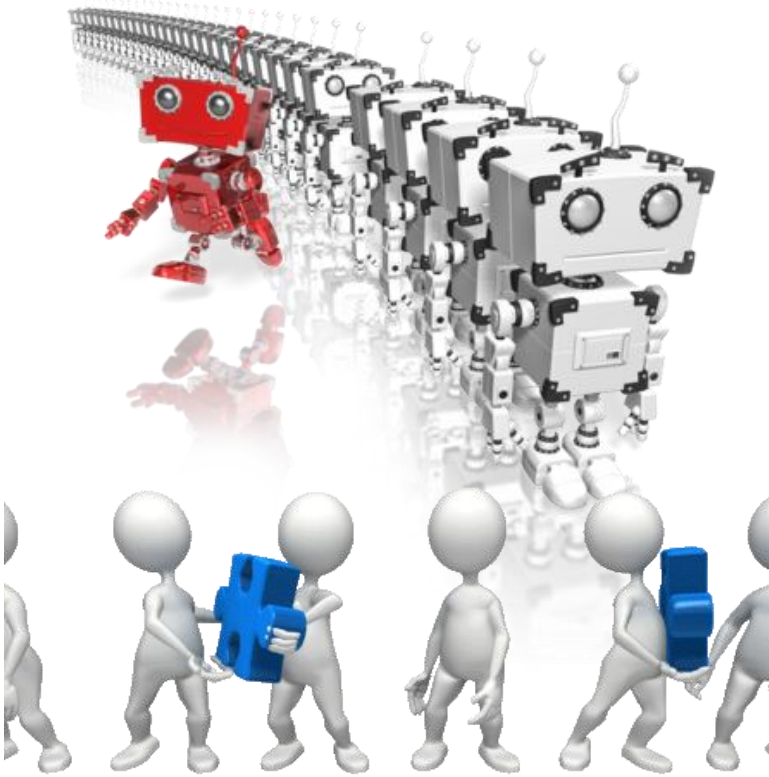
GLOBAL

Exponential Innovation





# What is this thing called the 4<sup>th</sup> IR



Mass Automation



Mass Connectivity

# Mass Automation



AR



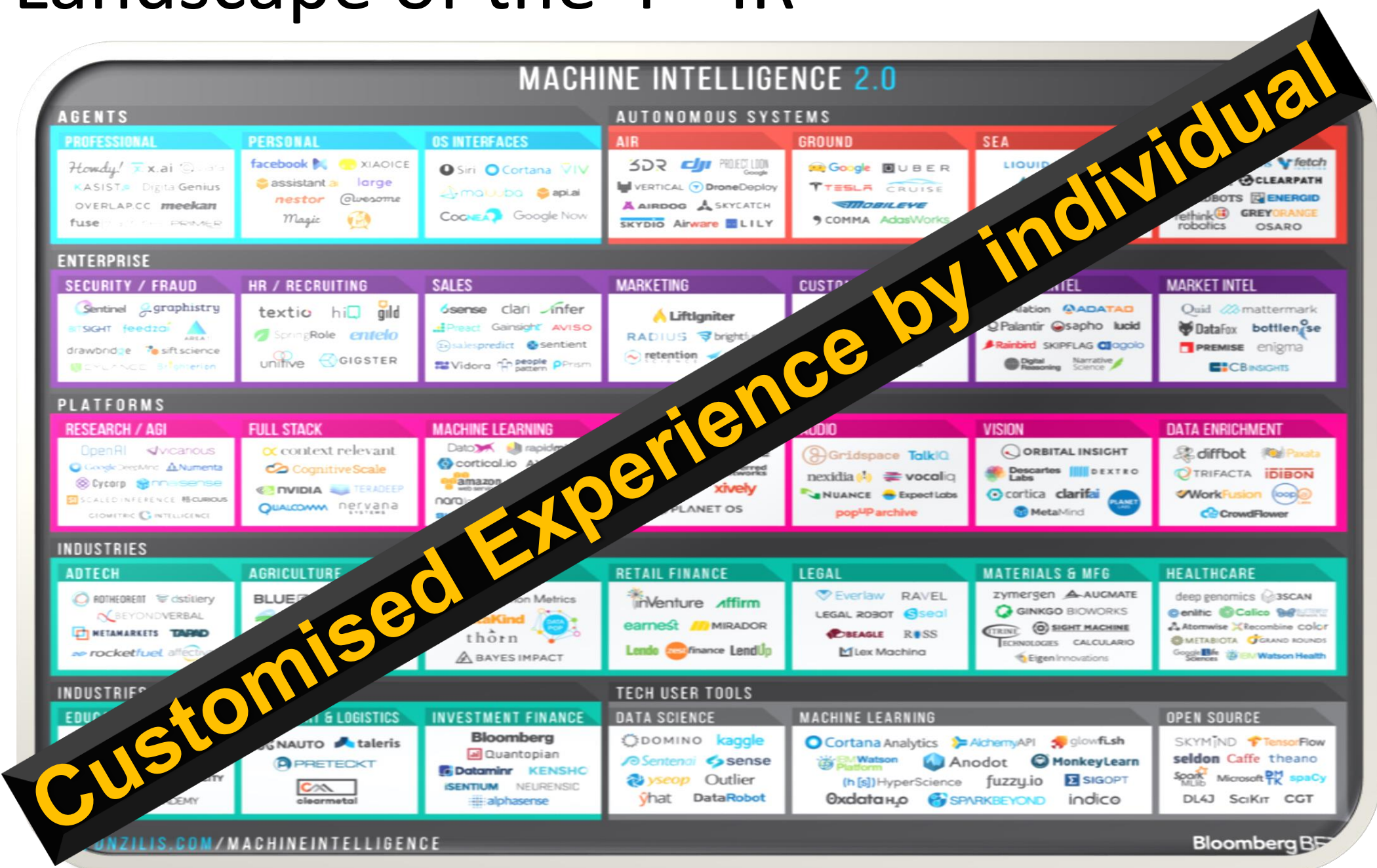
AI



Compute intelligence

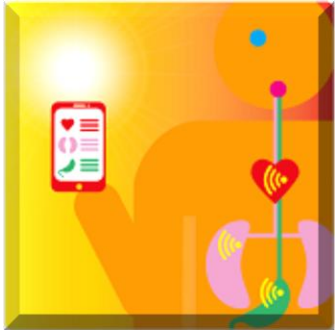


# Landscape of the 4<sup>th</sup> IR



# Top Ten Trends for 2016\*

Nanosensors and the Internet of Nanothings



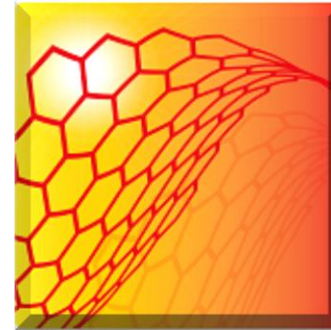
Next Generation Batteries



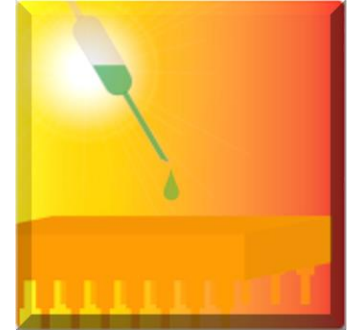
The Blockchain



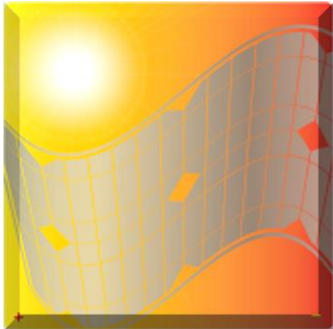
2D Materials



Organs-on-chips



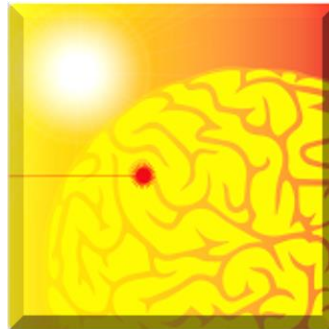
Perovskite Solar Cells



Open AI Ecosystem



Optogenetics



Systems Metabolic Engineering



Autonomous Vehicles



\*As per the WEF

# Mass Connectivity



# What does this mean

Fosters an instant on experience/expectation



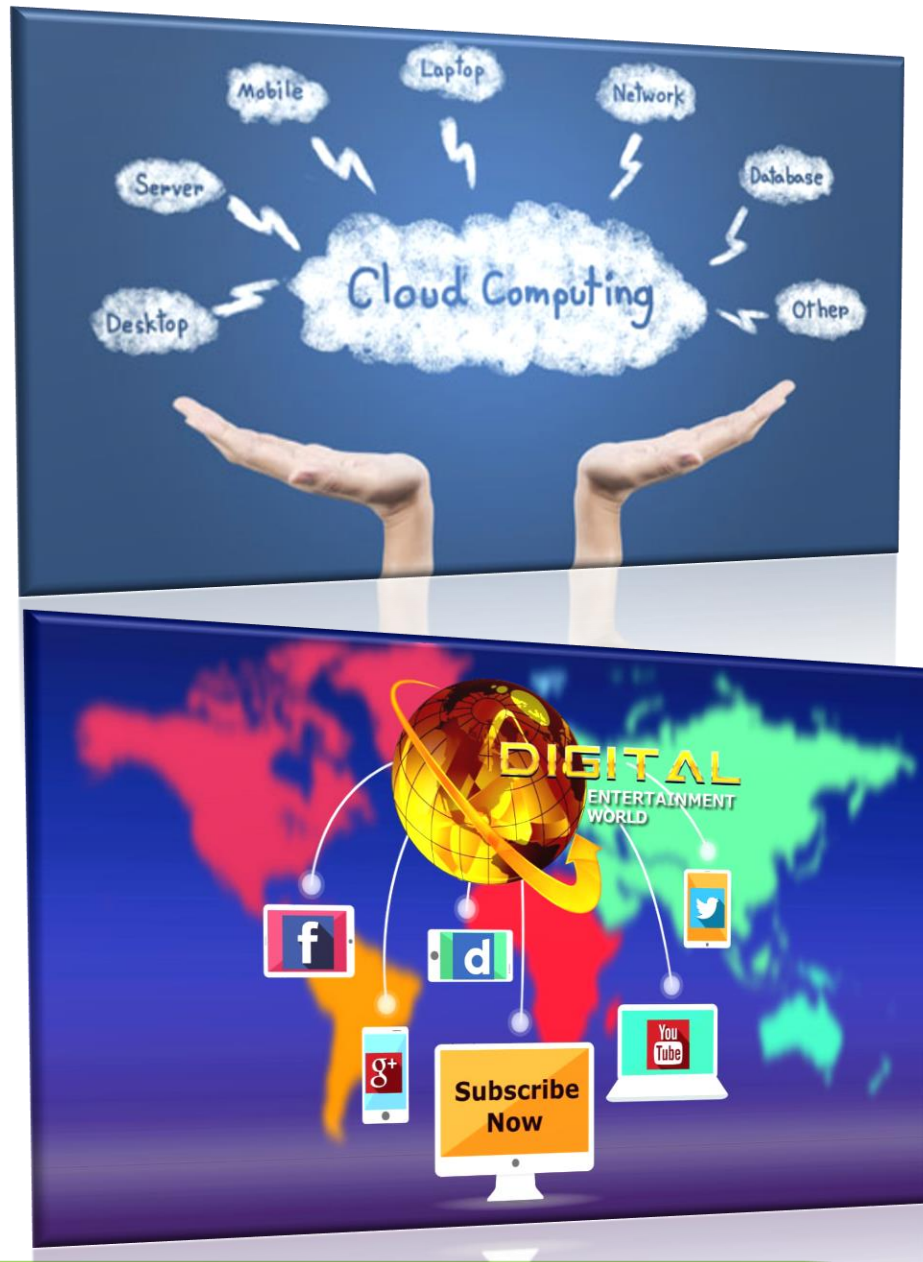
Drives higher levels of productivity 40x speed



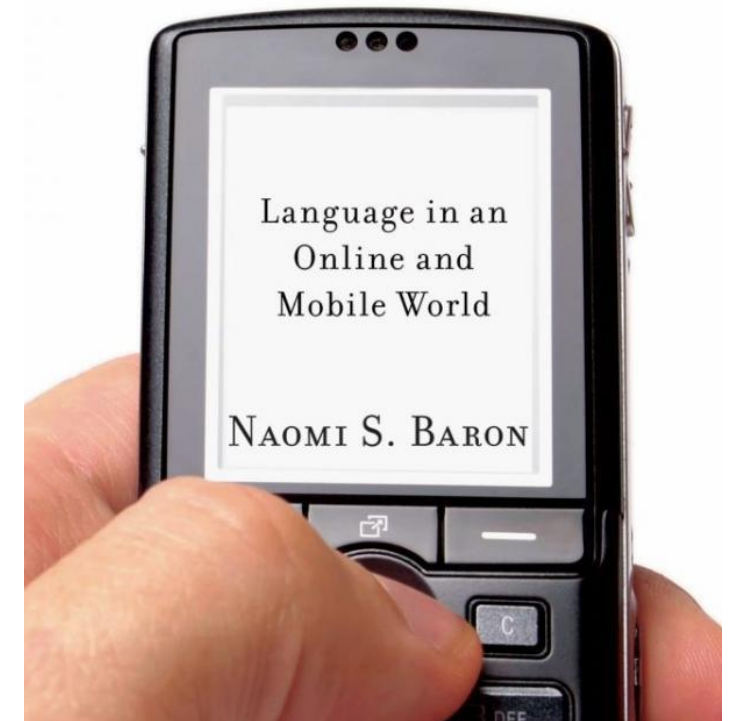
Allows greater geo political organization



# Digital is heart of this new era

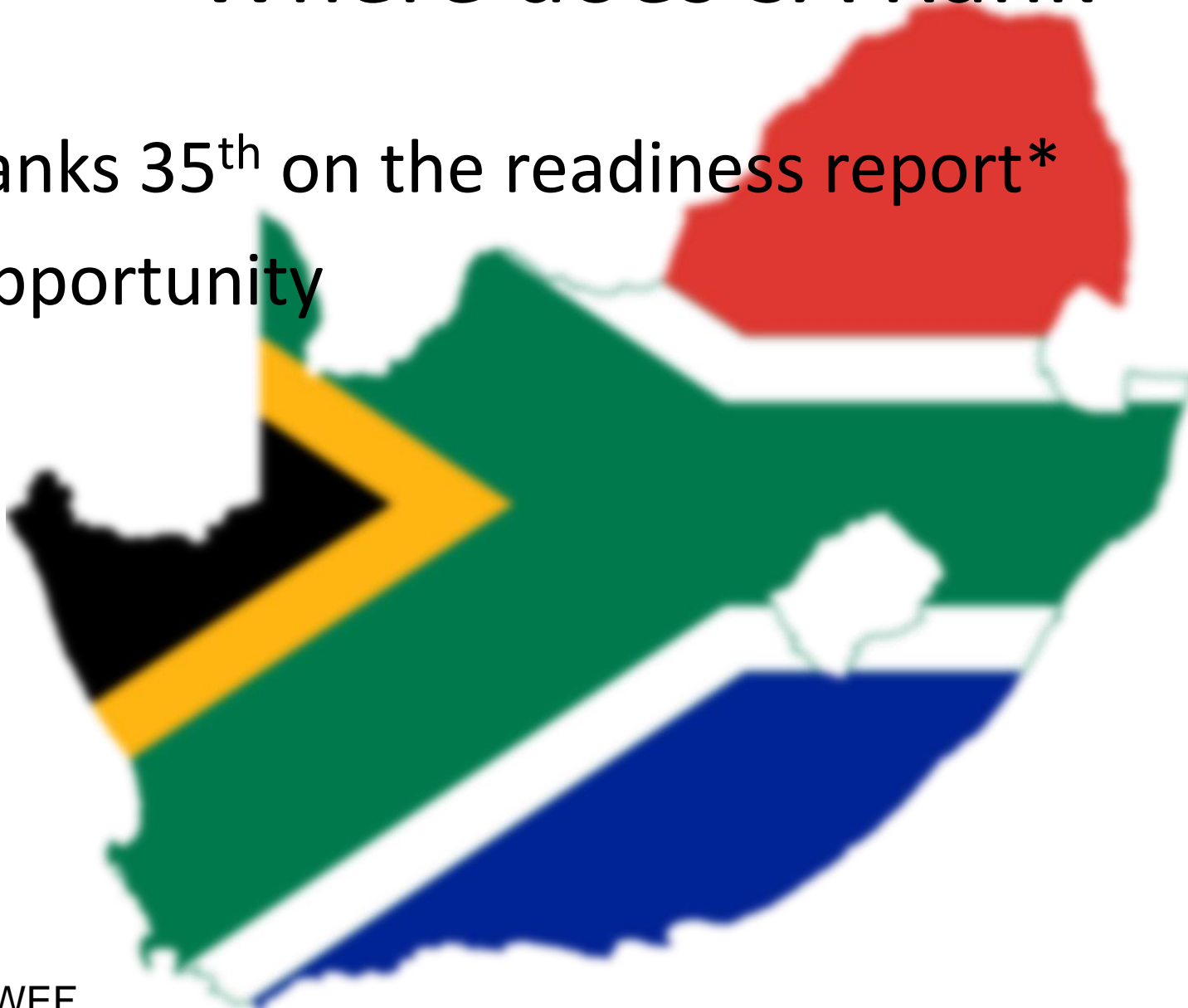


Always On



# Where does SA Rank

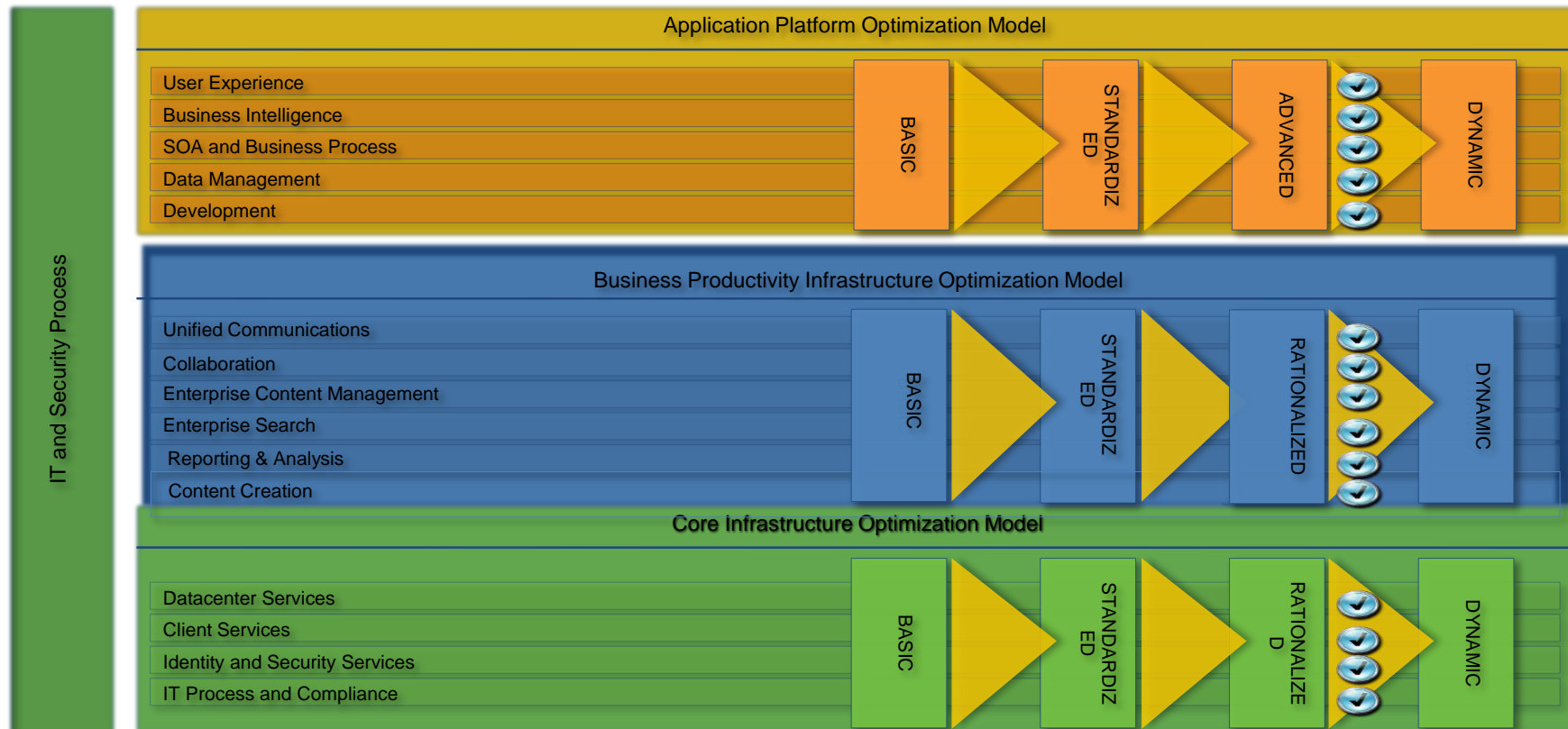
- Ranks 35<sup>th</sup> on the readiness report\*
- Opportunity



\*As per the WEF

# How do I compete in the new era

- High level of capability maturity



- Capability Maturity Model for Industry by CMU

# Non-Traditional Leadership





# Leadership is required

**EMPOWER**



Create Purpose



Mak

I've

I s

WHY  
ARE  
WE  
HERE?

**TEAMWORK**

Large ambitious goals usually require that people work together.

# IN Closing



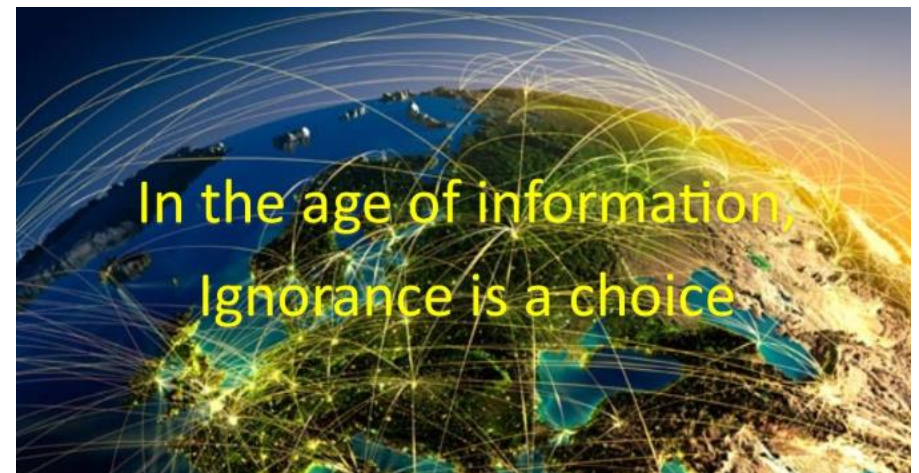
The 4<sup>th</sup> IR choice  
Opportunity or Threat

Leadership Required

## 5 Characteristics of Great Leaders

1. Love your Team
2. Give Praise
3. Seldom use Your Power
4. Surround Yourself with Rock Stars
5. Cast Your Vision

EntreLeadership®







# CONTACT US

## Leapfrog Group

CEO: Martin Humphries  
+27 (0) 083 282 3874  
[martin@leapfrog.global](mailto:martin@leapfrog.global)

## INNOVATION TECHNOLOGY GROUP

CEO: Robert Boccia  
+27 (0) 82 497 1422  
[robert@leapfrog.global](mailto:robert@leapfrog.global)

