



SAMSUNG

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SAMSUNG

HISTORY

TODAY

TOMORROW

SAMSUNG'S HISTORY





1938

1969



STEREO
RECEIVER
1972



CASSETTE
PLAYER
1974



AIR CONDITIONER
1974



REFRIGERATOR
1974



LAUNDRY
MACHINE
1974



VCR
1979

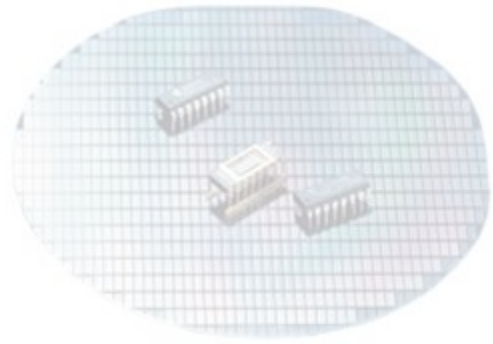


FILM CAMERA
1979

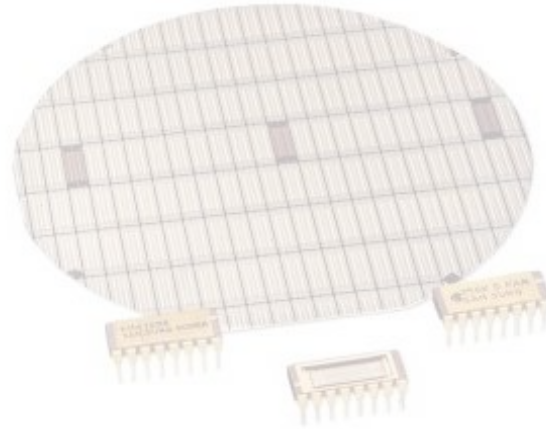


1970s

CONTINUED INNOVATION



64Kb DRAM
1983



256Kb DRAM
1994



8Gb DDR4 DRAM



PORTABLE SSD



14nm
APPLICATION
PROCESSOR

1980s



COLOR TV
1980



DIGITAL TV
1998



THE ROME
LCD TV



THE
BORDEAUX
LCD TV



THE
CRYSTAL
ROSE LCD
TV

1990s

CHANGE EVERYTHING

1993

WORLD'S FIRSTS MOBILE



WORLD'S FIRSTS TV



SMART TV



Slimmest
LED TV



DIGITAL TV



LED TV



Curved
OLED TV



BENDABLE TV

2011

2010

2009

1998

2013

2014

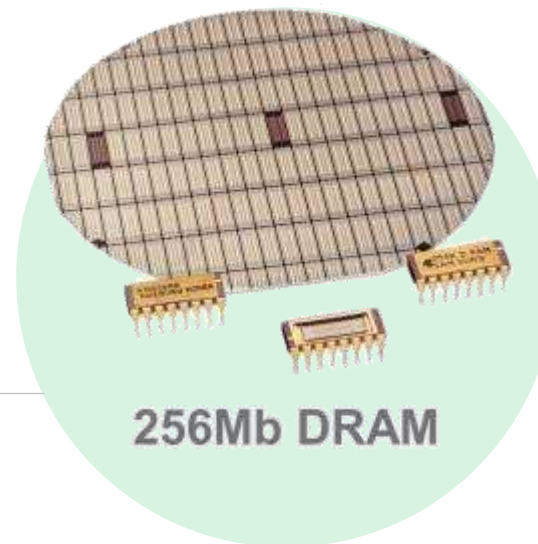
WORLD'S FIRSTS COMPONENTS

1992



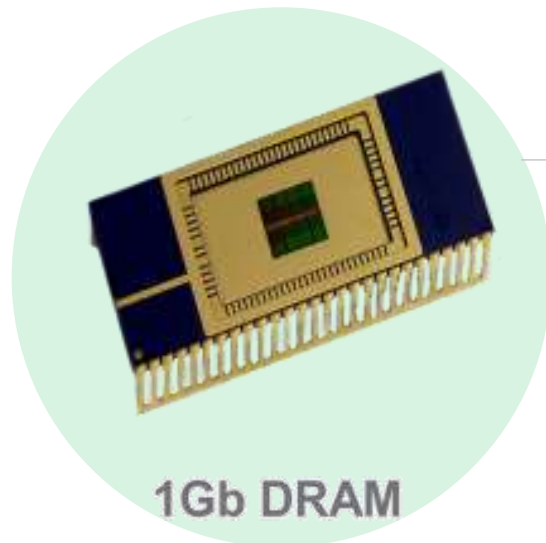
64Mb DRAM

1994



256Mb DRAM

2006



1Gb DRAM

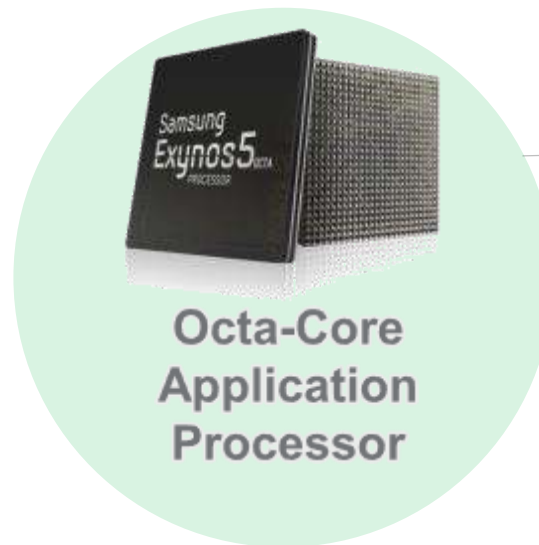


SSD for PCs

2012



4Gb LPDDR2
Mobile DRAM



Octa-Core
Application
Processor

2015

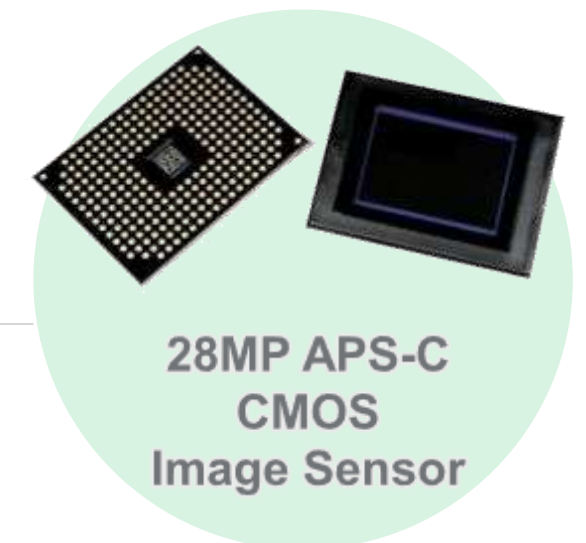


14-Nanometer
FinFET

2014

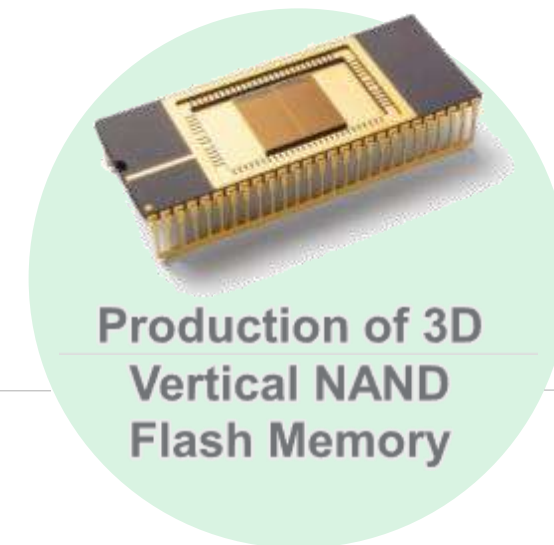


64GB 3D TSV
DDR4

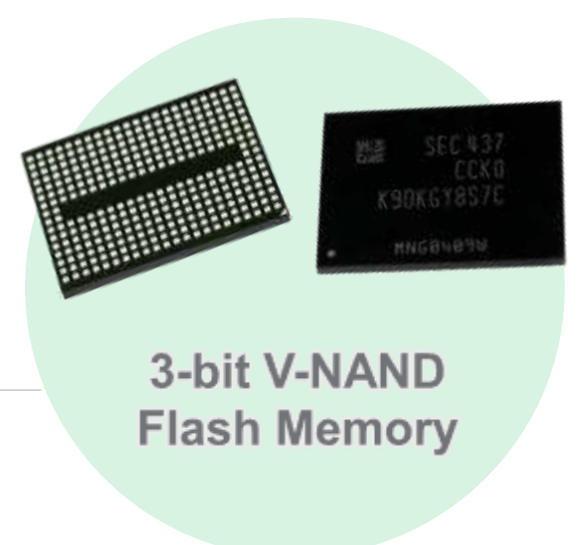


28MP APS-C
CMOS
Image Sensor

2013



Production of 3D
Vertical NAND
Flash Memory



3-bit V-NAND
Flash Memory

BUSINESS PORTFOLIO

Visual Display



Mobile Communications



Memory



Health & Medical Equipment



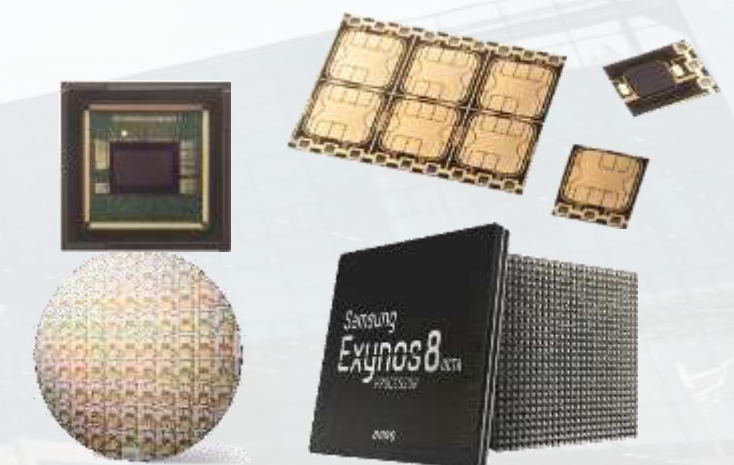
Digital Appliances



Networks



System LSI



2017

MARKET LEADER

#1

MARKET
SHARE

TV

—Display Search



Smartphone

—Strategy Analytics



Refrigerator

—GFK/Traqline



Total Mobile Phones

—Strategy Analytics



Digital Signage

—IHS



Memory (DRAM, NAND, SSD)

—IHS iSuppli

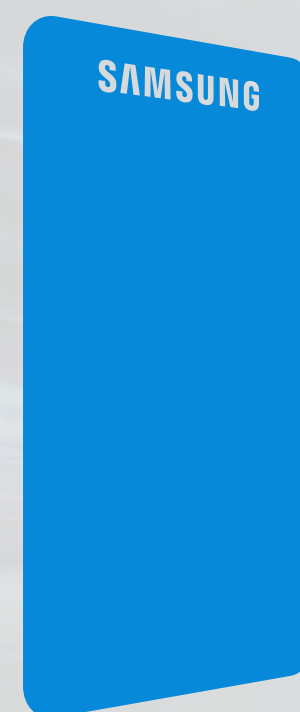


MARKET LEADER

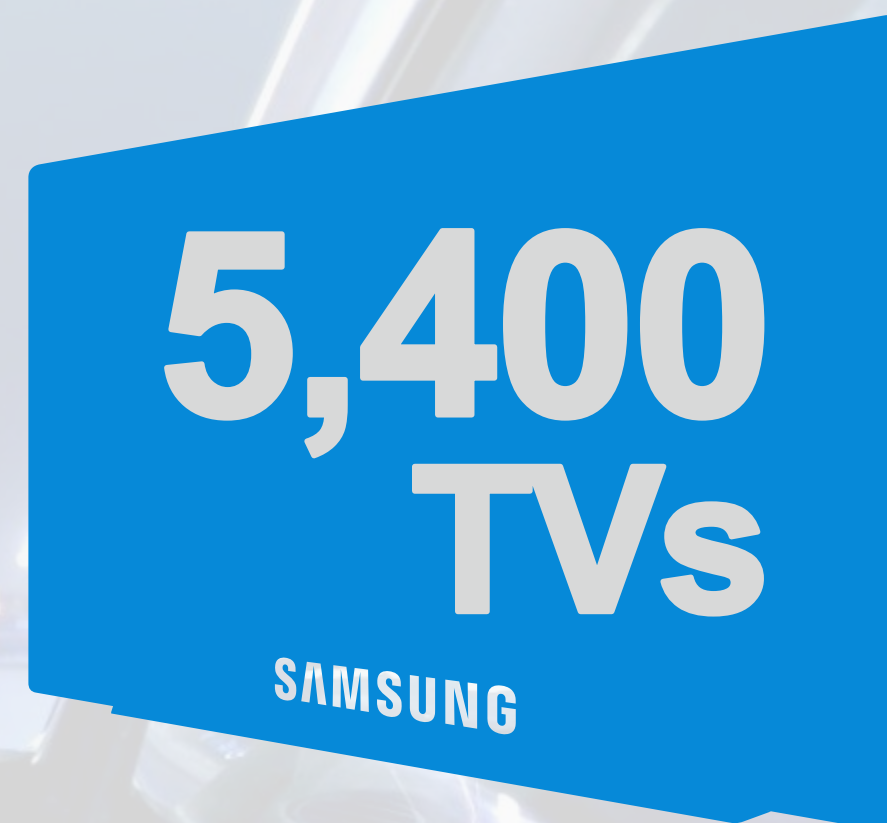
Every HOUR,



Samsung sells over:



**44,000
MOBILE
PHONES**



**5,400
TVs**

Statistics: 2015

* Calculation based on statistics
from Strategy Analytics (mobile)
and Display Search (flat panel TV)

SAMSUNG

PATENT LEADERSHIP



Patent Holder in the US
SINCE 2006

5,072

New Patents at the U.S.
Patent & Trade Office
IN 2015



Patent Holder in Europe
IN 2015

2,366

New Patents at the European
Patent Office
IN 2015

4G (LTE)

Declared the Most Patent
Applications in ETSI
for 4G (LTE)



SAMSUNG TOMORROW



INNOVATION PILLARS



Research & Development

We push **boundaries of science and technology** and explore **lifestyle trends**.



Design

“Inspired by **humans**, creating the **future**” is our design philosophy



Open Innovation

From **Open Innovation** with worldwide partners and startups to pioneering in-house **research**.

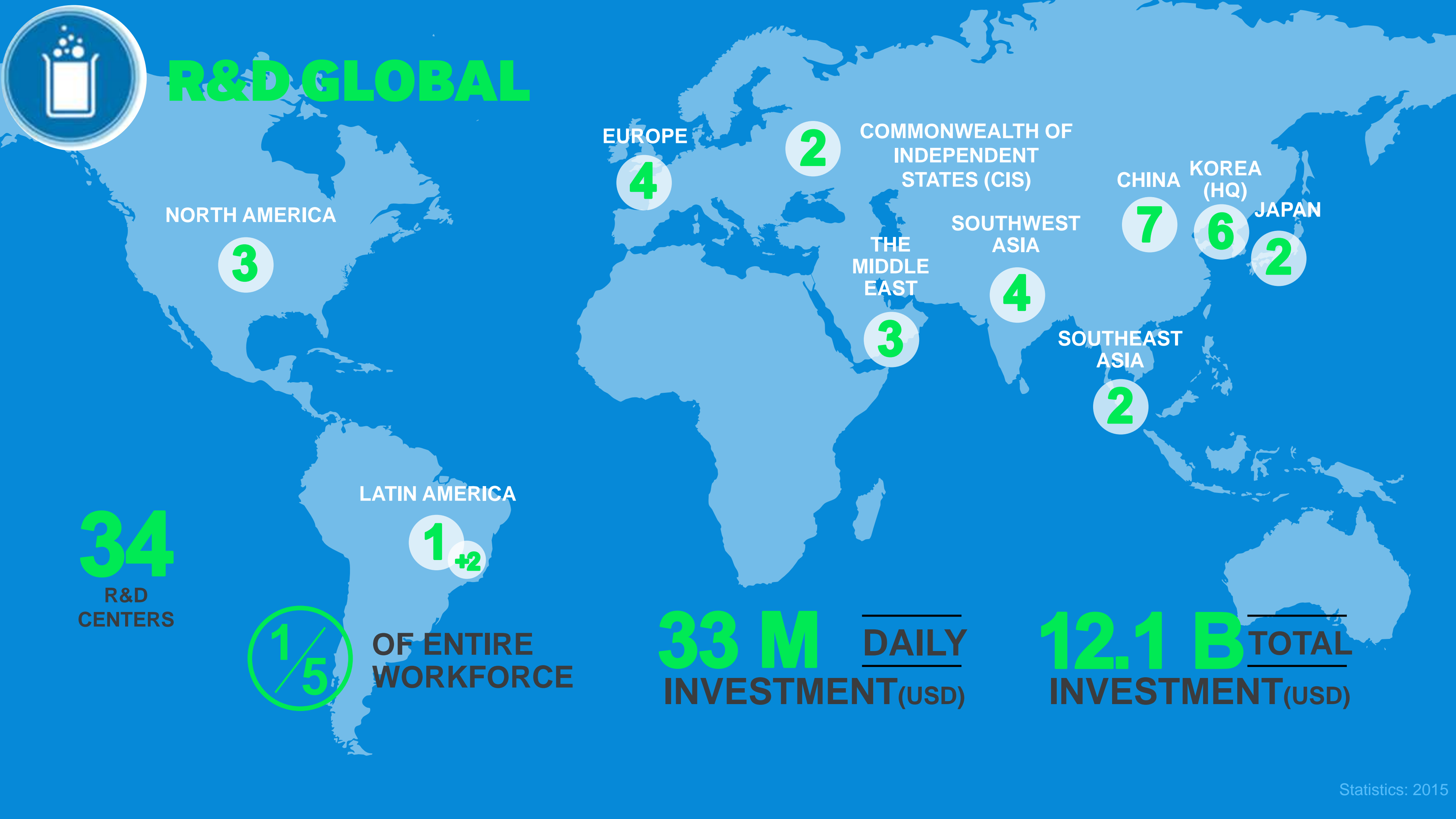


Innovation Outcomes

We're proud of our history of many pioneering and breakthrough '**World First**' moments.



R&D GLOBAL



34
R&D
CENTERS

1/5

OF ENTIRE
WORKFORCE

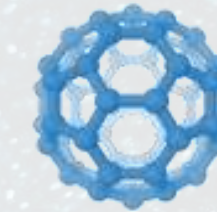
33 M DAILY
INVESTMENT (USD)

12.1 B TOTAL
INVESTMENT (USD)

GLOBAL R&D

SAIT (Samsung Advanced Institute of Technology)

Edge Research and New Business Creation
5 to 10 years



Metamaterials

R&D Center

Next Generation Products & Platforms
2 to 5 years



Intelligence

Development Team

Products Development
1 to 2 years



Security



Media Standards



System
Optimization

ADVANCED TECHNOLOGY



SECURITY



Mobile Security



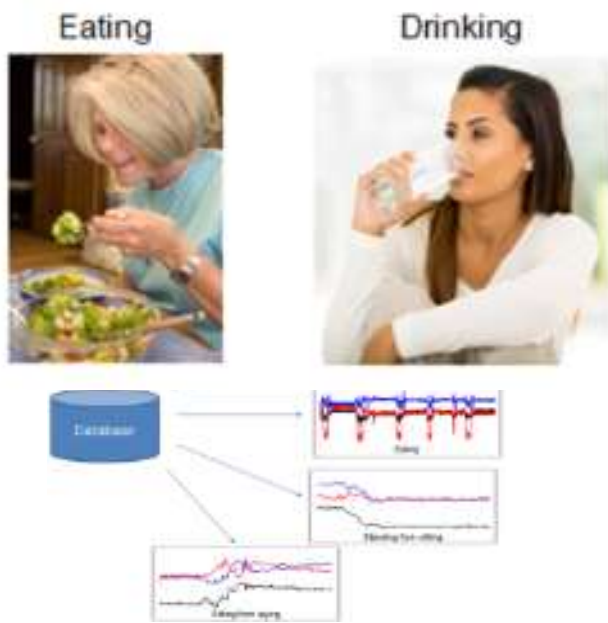
Smart TV Security



IoT Security



INTELLIGENCE



Human Activity Recognition



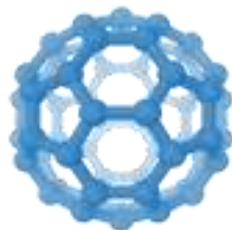
Sensitive Media Analysis



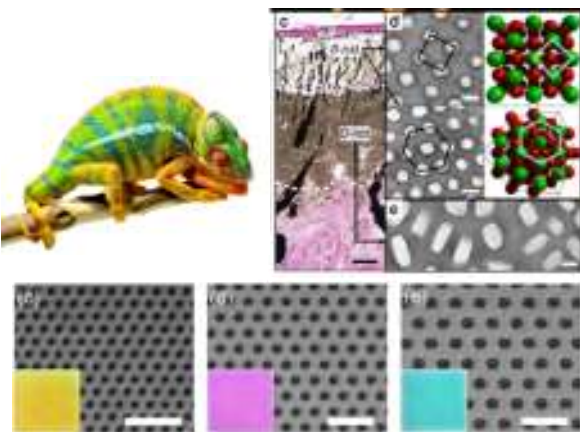
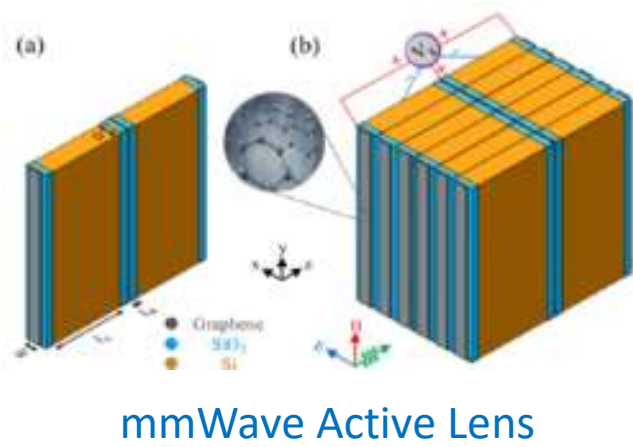
MEDIA STANDARDS



Light-fields Compression



METAMATERIALS



Active Wavelength Filtering



SYSTEM OPTIMIZATION



Multicore CPU & GPU Optimization



Energy Management

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ENTREPRENOURSHIP



2014

2016



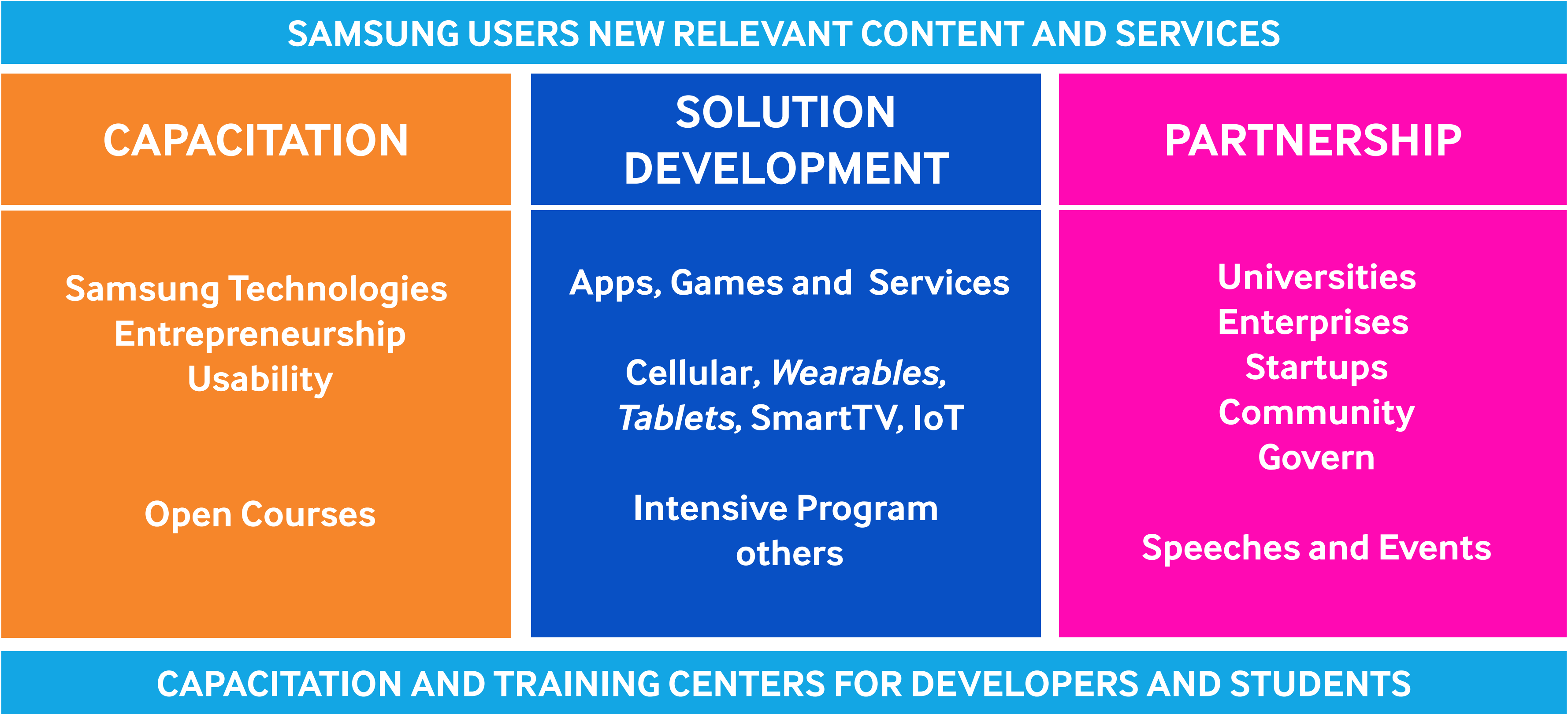
MANAUS ○

SÃO PAULO ○

○
SEUL



THE OCEAN



PROGRAM

2014

ESTABLISHMENT

São Paulo and Manaus sites setup

Establish local ecosystem relationship

Set strategic partnerships

Impact the higher number of people

2015

MATURITY

Prospect ideas for new Services and Contents

Foster new STARTUPS creation

Guide Community new developments aligned to Samsung business needs

2016

EVOLVEMENT

Review operation model

Getting closer to university centers

Focus on actions for major impact with less effort

2017

INNOVATION

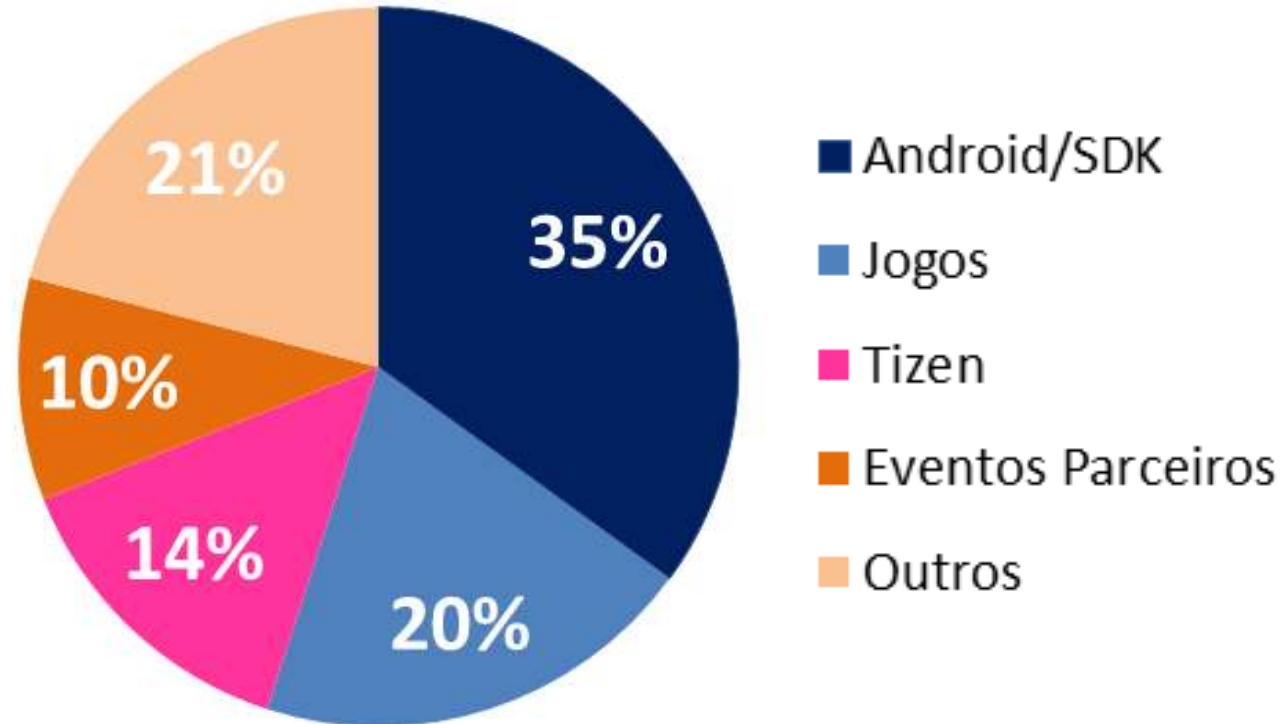
Strength university partnership

Setup Industry verticals initiatives

Foster new STARTUPS creation

OCEAN IN NUMBERS (2014-2017)

1.9K+	Training Sessions
40K+	Attendees
94%	Relevant Content
91%	Exceed Expectations
150+	Solutions



SAMSUNG OCEAN

INTENSIVE RESULTS (SP)

5 Editions

36 STARTUPS

17% - INVESTMENTS/CLIENTS

PR



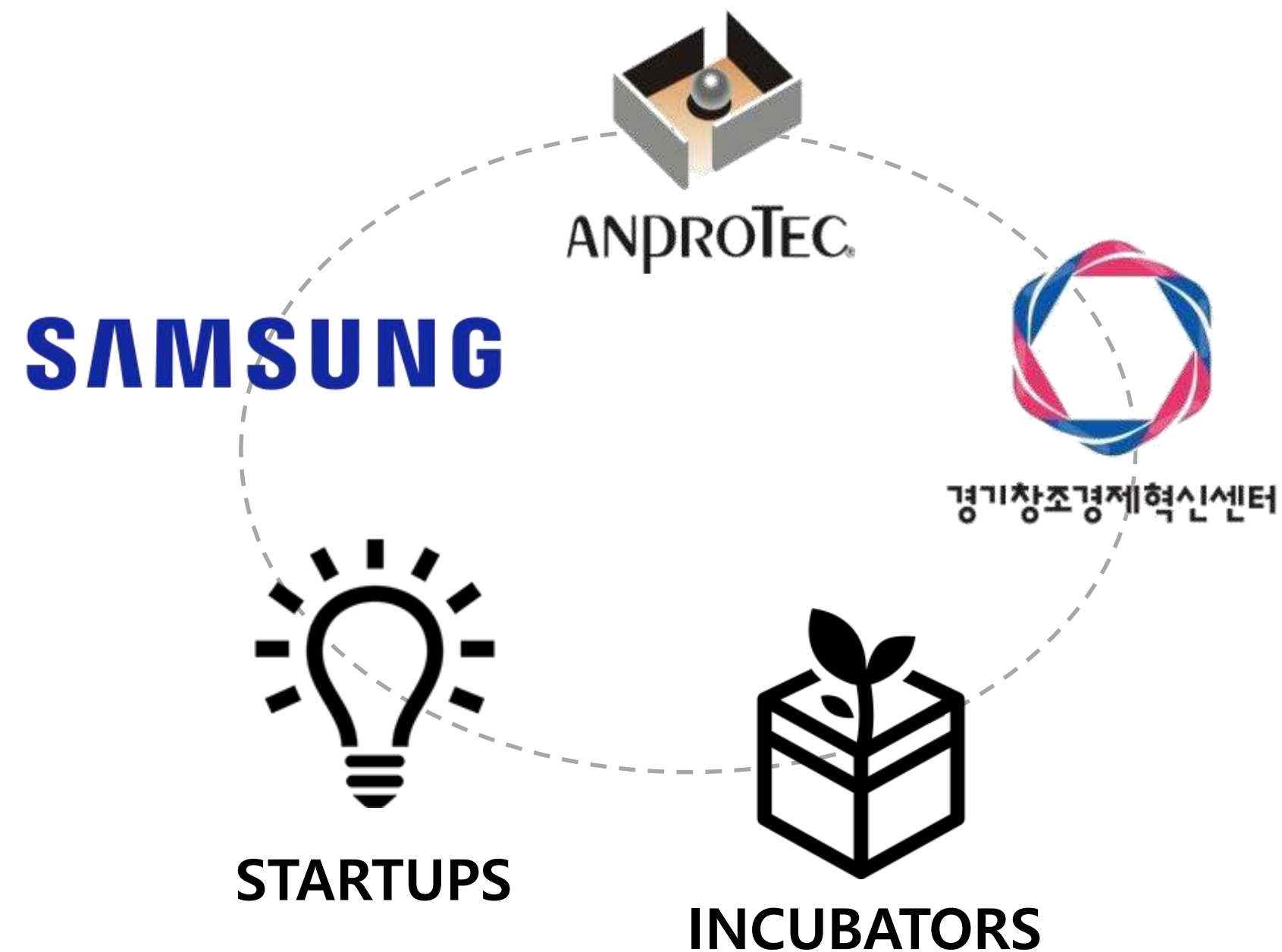
STABLISHED STARTUPS

12 STARTUPS / 10 INCUBATORS (2nd batch)

9 months/ ANUAL

INVESTMENT: up to R\$ 250 MIL

NO EQUITY



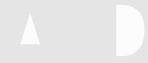


 {StartUp} #2   

Economia Criativa

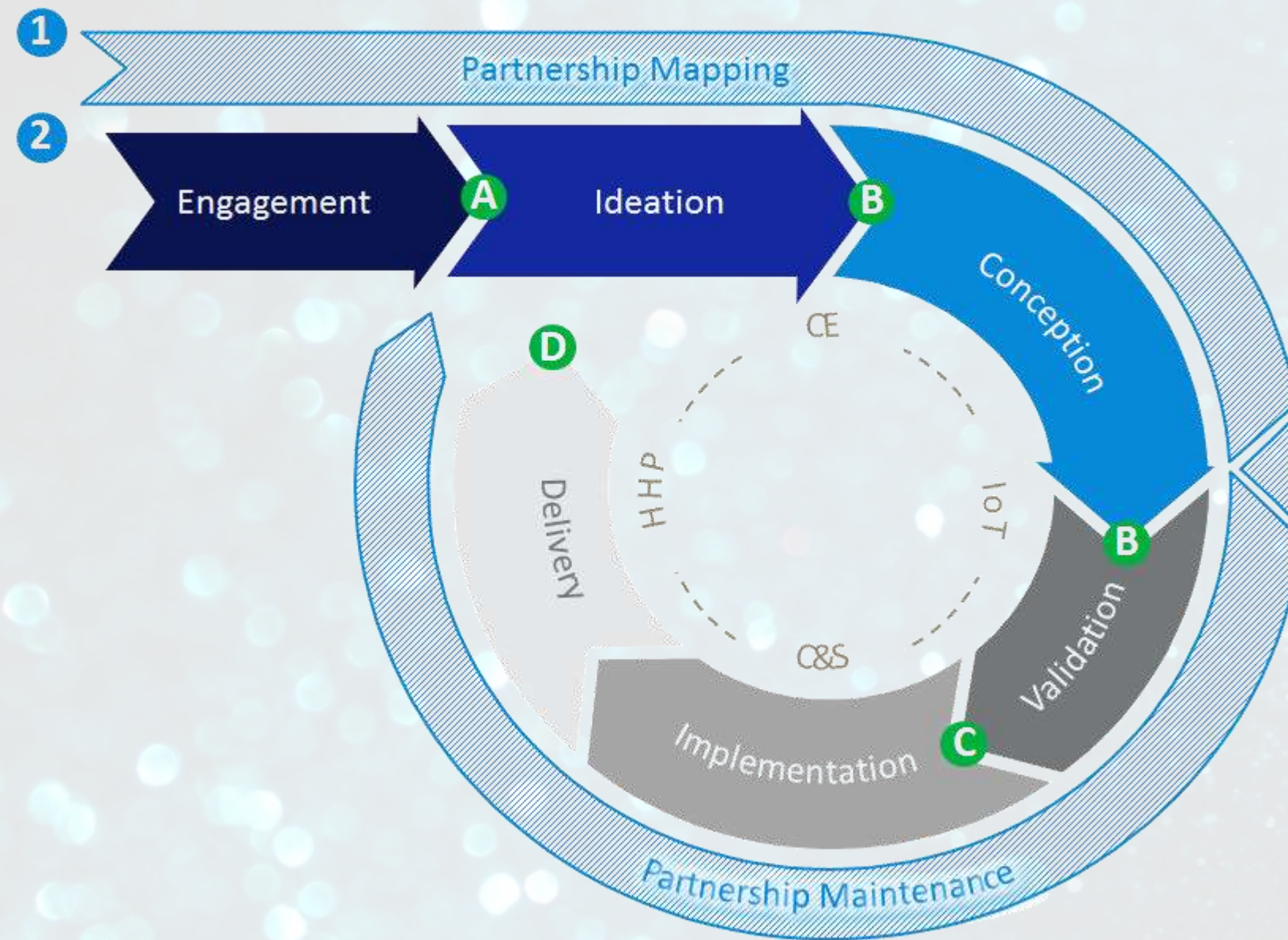
Powered by **SAMSUNG** & ANPROTEC.





OPEN INNOVATION

OPEN INNOVATION



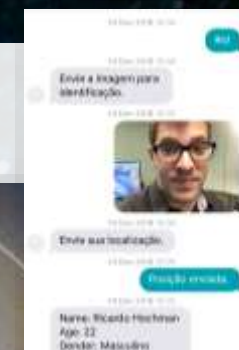
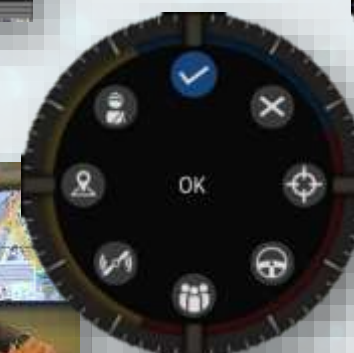
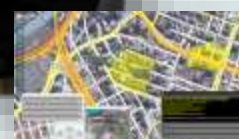
- 1 Mapping & Maintenance**
 - Discover potential partners
 - Develop partnership strategy
 - Reach-out to partners
 - Evaluate post-project metrics
 - Renew/ Eradicate partnership

- 2 Engagement**
 - Engage partners to start project
 - State issue and solution
 - Conceive solution and test
 - Evaluate opportunities for Samsung
 - Validate idea
 - Launch solution

- Gates/Checkpoints**
- A: NDA
 - B: MOU
 - C: Bilateral contract
 - D: Partnership reevaluation



GRUPO EMBRAER



SAMSUNG

OBRIGADO!

