



Enabling digital society





Who we are

Altice Labs, an Altice Group company, lives by innovation and works every day for the development of new telecommunication solutions and technologies, anticipating the future.

What we do

Knowledge is the raw material that Altice Labs transforms into advanced solutions with an innovation approach supported on an ecosystem built around R&D entities, startups and industrial partners.



Vision



Lead the development of new ICT solutions and technologies.

Mission

Promote the process of innovation, turning knowledge into competitive advantage in the market.

Values

Altice Labs' commitment is to offer all its customers and partners best-of-breed products and technologies with cutting edge innovation.



To Know
and
To Do



Excellence



Team
Spirit



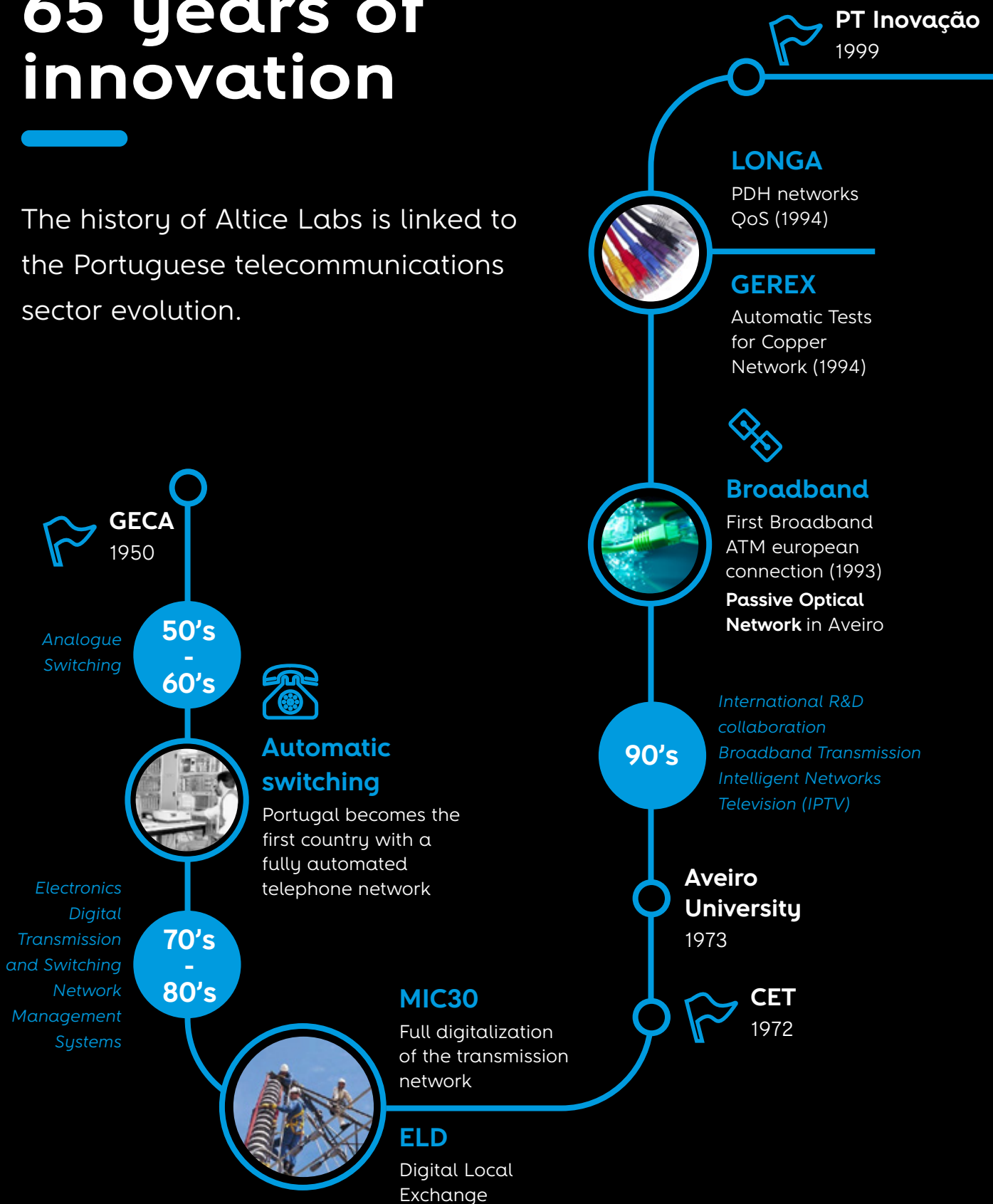
Creativity
and Innovation



Commitment

More than 65 years of innovation

The history of Altice Labs is linked to the Portuguese telecommunications sector evolution.





MIMO

First cellular prepaid service in the world

Internationalization
Mobile Networks
Multimedia and
Television

2000's



i9 Mobile Portal

First live TV commercial service over GPRS (2003)



EMILOx16

ATM over SDH for TMN's 3G Mobile Backhaul (2004)

picoDSLAM

Portugal becomes the 4th country in the world with full Broadband coverage (2005)



MEO

Innovative interactive TV service (2008)

2010's



FiberGateway

First GPON Gateway 802.11 ac 4x4



Altice Labs 2016



NG-PON2

Field tests at US Tier 1 Operator (2015)



Smart2M

M2M managed connectivity & IoT (2013)



NOSSIS certification

First OSS suite certified by TMF Frameworkx12 (2012)



ACM

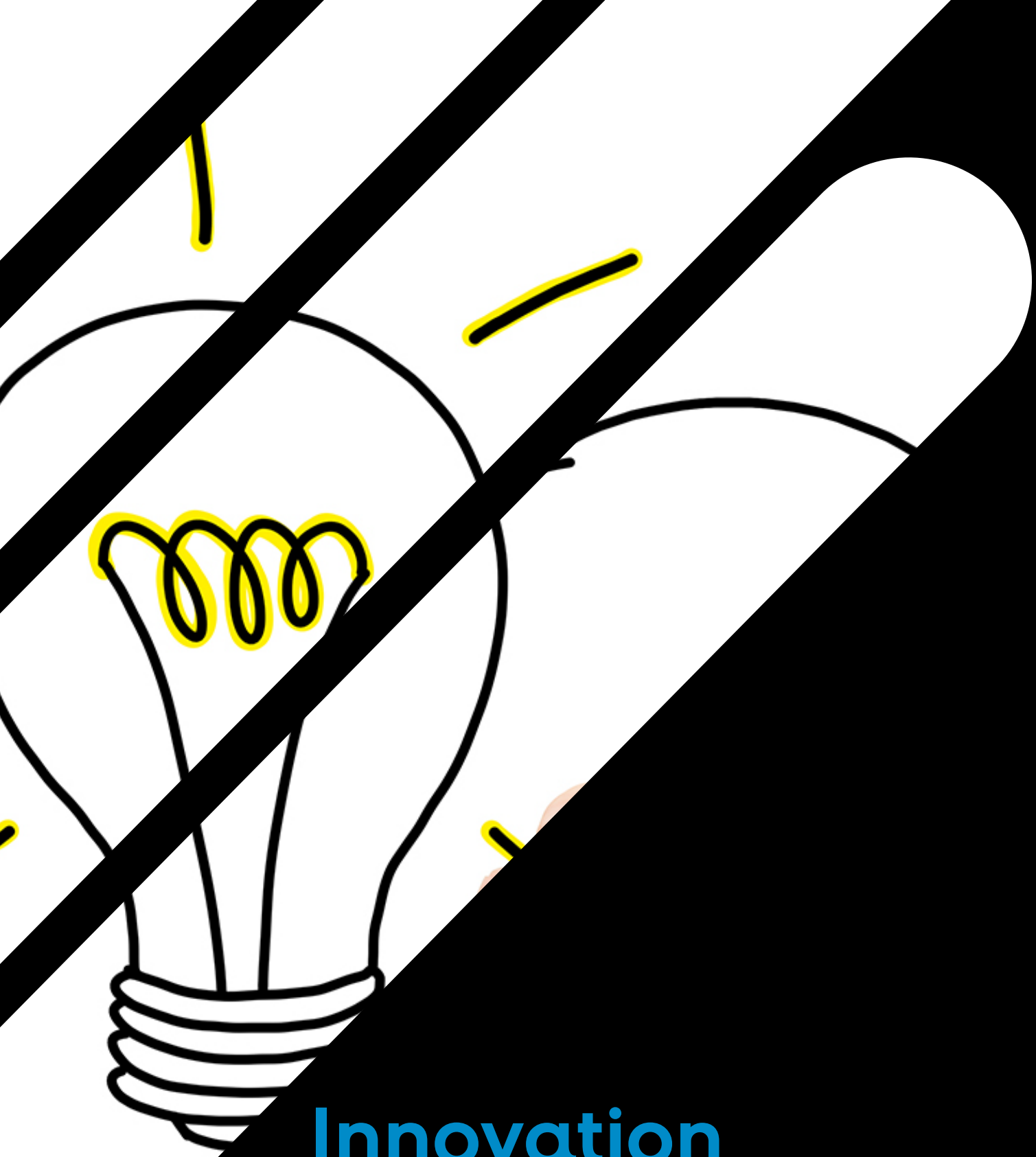
Real time one-to-one Contextual Campaign Execution (2011)



GPON

First interoperable ONT (2010)

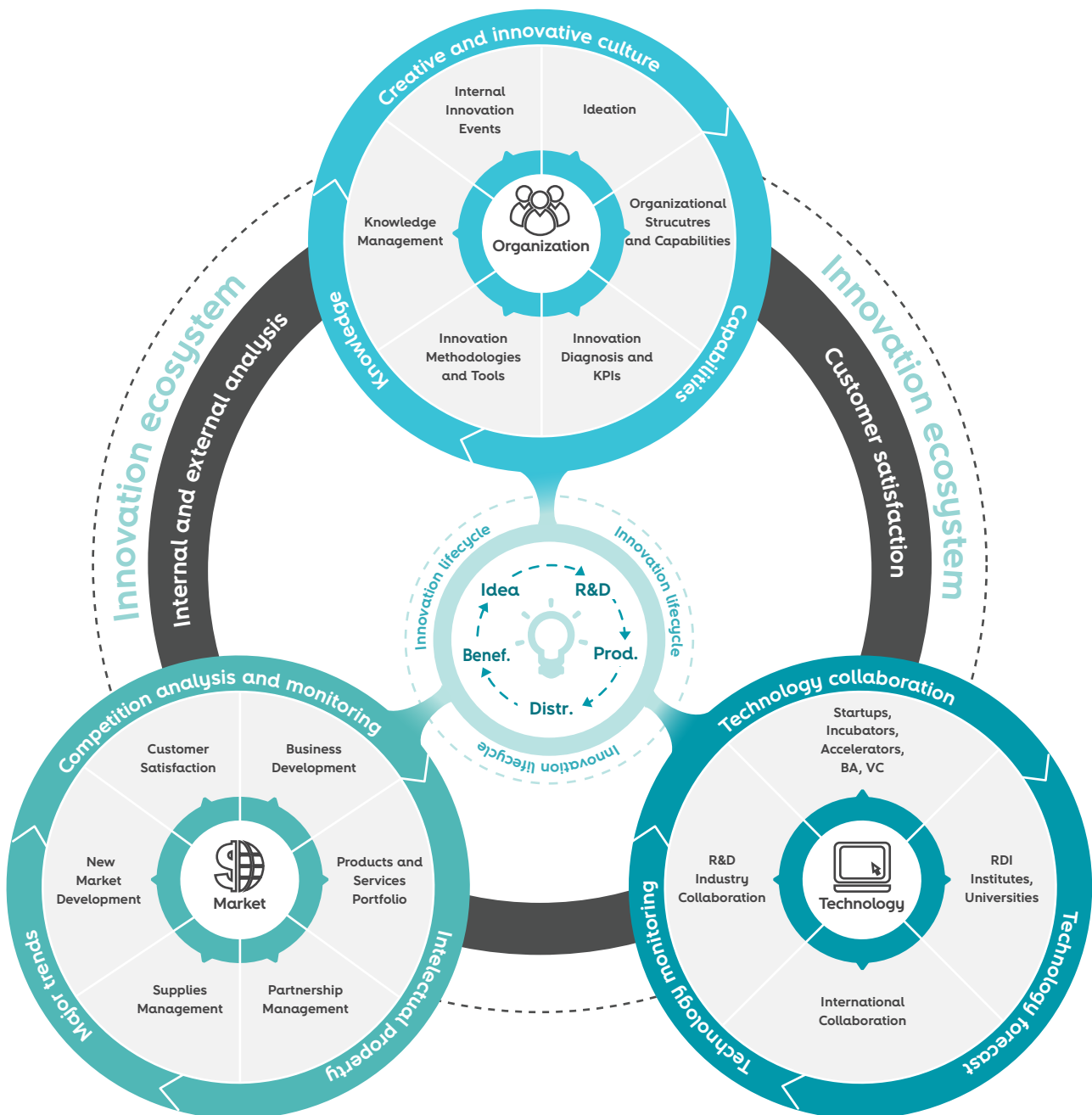
Optical access
Mobility
Digitalization/Virtualization
Personalization /
Contextualization
M2M and IoT



**Innovation
process
management**
& innovation ecosystem

Innovation process management

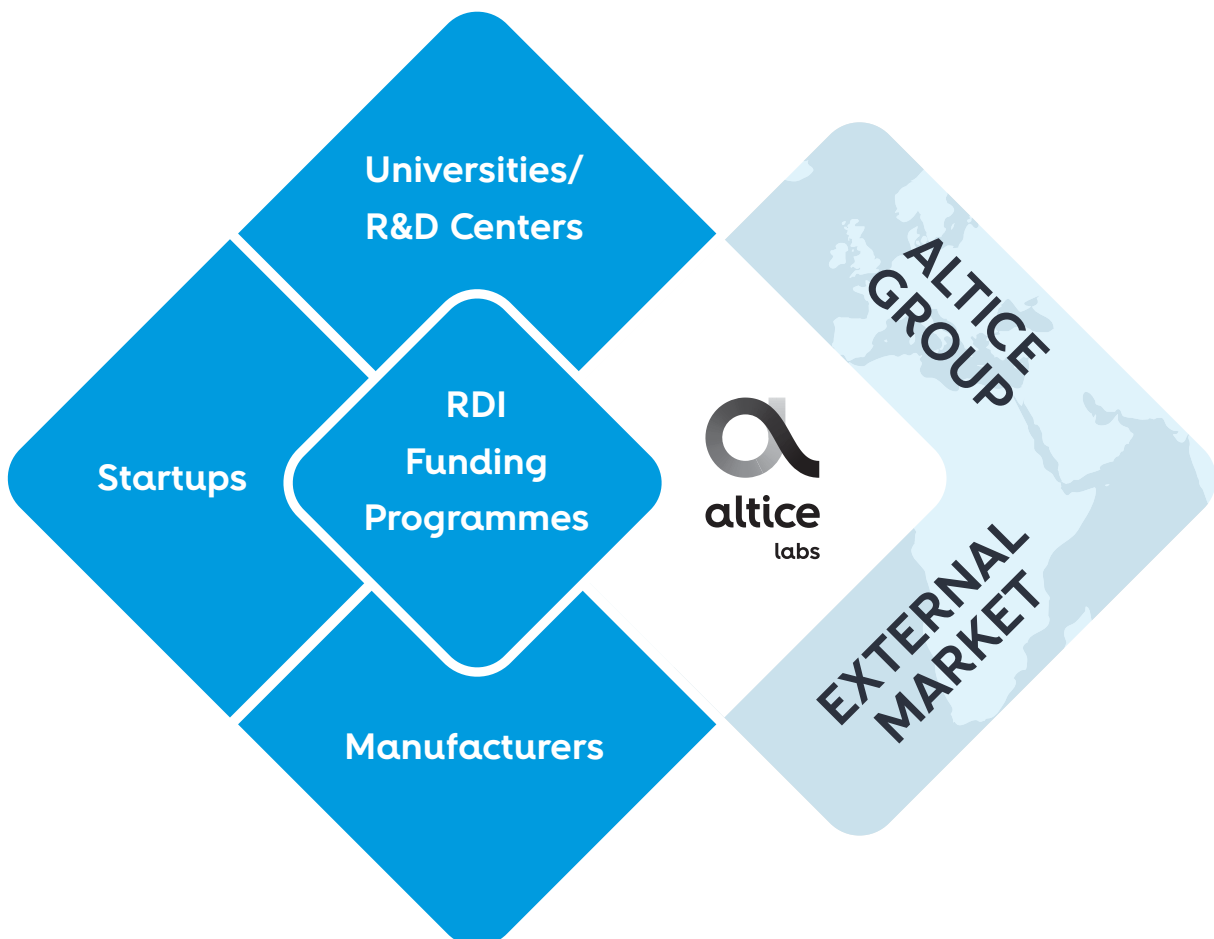
Altice Labs promotes knowledge transformation into technological innovation as a means to create differentiation in the markets and value for all stakeholders.





Innovation process & ecosystem

Altice Labs continuously engages in collaborative RDI projects as part of a sustained strategy for technological leadership. To this end, Altice Labs plays an active role in the Innovation Ecosystem, working in partnership with world class universities, R&D Institutions, technology startups, Suppliers and Clients in several projects, based on a risk sharing model, resorting to external funding from the major national and international research and innovation support programs.



RDI business impact

Altice Labs Solutions
Roadmap

Now

FTTx
Unified Communications
M2M/IoT
Payment Gateways
Convergent charging and
policy
Interactive TV
OSS

Mastering the evolution
into next generation
service delivery

Tomorrow

Cloud, NFV / SDN
Customer Experience
Content Delivery
Security & Privacy
BigData
IoT

Explore new opportunity
areas to improve Altice
Group's competitive
positioning

Trends

5G
Smart Cities
Smart Living
Digital Economy

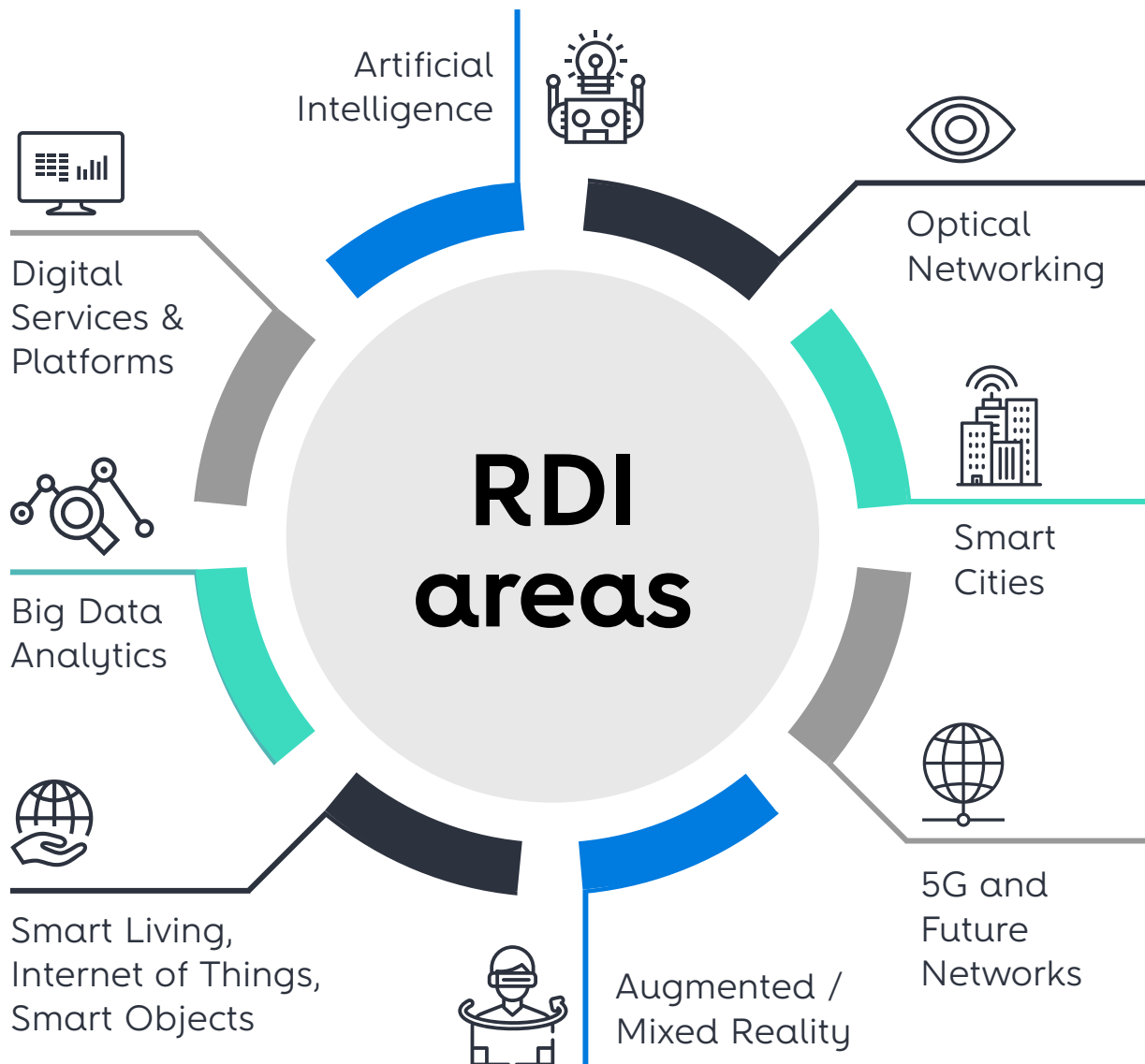


Research, development & innovation

areas

RDI areas

To ensure value creation and positive return to the operations, Altice Labs guarantees that knowledge transfer occurs in all exploratory innovation specific activities around strategic areas.



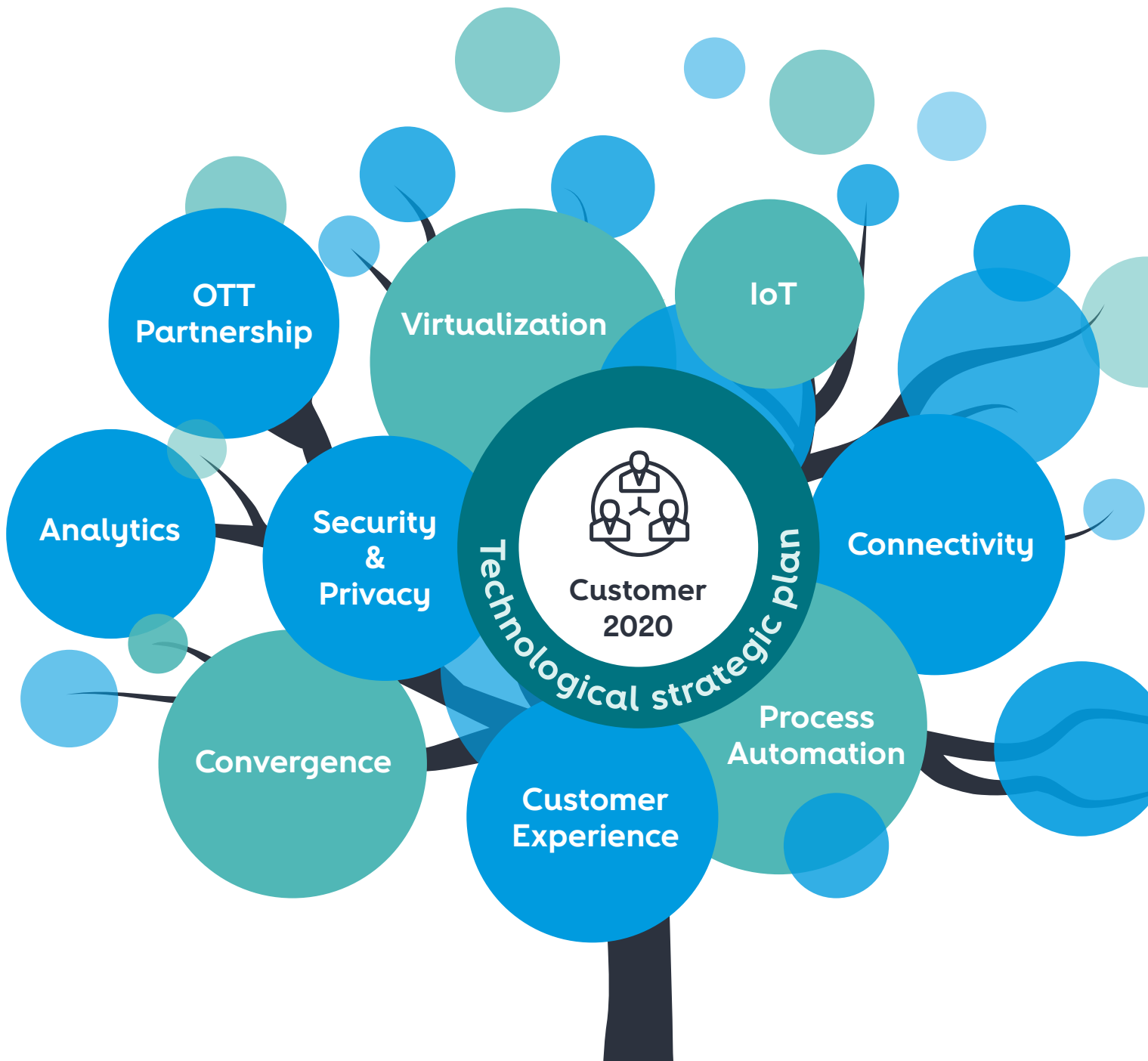


Strategic plan

for technology
evolution

Technological strategic plan

Altice Labs helps define the vision for the Altice Group technological strategic positioning and the evolution initiatives required to achieve that vision, focused on the customer of today and tomorrow.





Solutions and product development

Network Systems



Operations Support Systems



Network Control and Services Platforms



Digital, Internet & Television





Network Systems

Solutions and products for access, aggregation / metro and core networks; passive optical network and FTTx equipment; conformance & certification Labs.

Laboratories and Engineering Services

- Conformance and Certification Labs
- Cellular planning and optimization

xPON

- GPON
- XGS-PON
- NG-PON2
- G.Fast

RF & Probing

- RF Overlay extender
- QoS Probing
- PON Probing

FTTx Passives

- Passive products and components (splitters, cabinets)



OLT1T1



OLT1T3



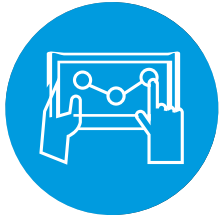
XGS-PON



NG-PON2



ONT



Operations Support Systems

Integrated suite of OSS products enabling process automation, in the areas of Operational Support & Readiness, Fulfillment and Assurance.

Network Development and Inventory

- Enabling business evolution

Service Assurance

- Guaranteeing client service

Customer Centric Operations

- Operating with total focus on the client

Service Fulfillment

- Overcome client expectations



NETWIN
(Inventory)



NA
(Network Mediation)



NetQ
(Test and Diagnostics)



ALTAIA
(End-to-end assurance)



ArQoS
(Network and service monitoring)



AM
(Fault Management)



SIGO
(Operational activities mgmt)



Network Control and services Platforms

Network and service control for convergent platforms, addressing B2C & B2B markets, service monetization, personalization and quality of experience.

Convergent services, charging & policy management

- Unified communications, monetization and quality of experience

API Management

- Managing the digital services ecosystems

Campaign & Channel management

- Personalization and quality of experience

M2M & IoT

- New revenue streams



Smart2M
(M2M Connectivity Mgmt)



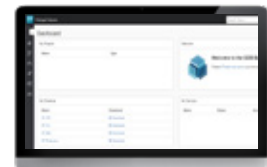
PCC
(Policy and Convergent Charging)



ABC
(Unified Communications)



ACM
(Campaign Manager)



SDB
(Service Delivery Broker)



Digital, Internet & Television

Integrated and convergent interactive TV solutions; multiplatform and multi-device mobile services; VAS platforms; usability and user experience activities for applications and products.

Interactive TV

- Core Middleware Functionality
- Middleware Customization



iTVcllic® Value Apps

(iTV Apps for enhanced services)

Native iOS, Android & Windows OTT TV

- Content Discovery
- Mobile TV Platforms



Mobile TV Platforms

(Search and Discover Content)

Push & Pull Advertising Platform

- eCare and eHealth Solutions
- Wallet & Payments, Personal Cloud Storage



MEO Go

(OTT TV Apps for TV anywhere)



iTVcllic® Core Apps

(iTV Apps for essential services)



SmartAL

(Smart Assisted Living)

Global presence

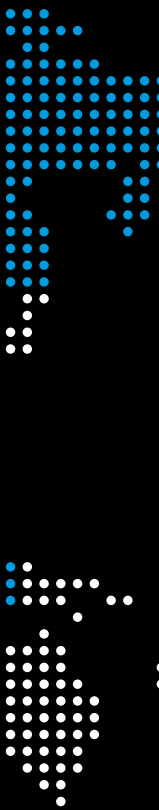


250 million people communicate everyday
through technology developed by Altice Labs

Partners network

Partner ecosystem to drive mutual growth and create new business opportunities in strategic markets.

Partners are an extension of the organization, playing a key role in the strategy and go-to-market activities.





www.alticelabs.com