

## Professional insertion into the industrial cycle

### *Some examples*

VANIA CONAN  
30/04/2015



# Thales group in short

## Collective intelligence for a safer world

Whenever critical decisions need to be made, Thales has a role to play.

In all its markets (aerospace, space, ground transportation, defence and security )

**Thales solutions help customers to make the right decisions at the right time and act accordingly.**

World-class technology, the combined expertise of **61,000 employees** and operations in **56 countries** have made **Thales a key player in keeping the public safe and secure**, guarding vital infrastructure and protecting the national security interests of countries around the globe.



Employees

**61,000**

(workforce under management at 31 Dec. 2014)



Global presence

**56** countries



Self-funded R&D

**675** million euros

A balanced revenue structure

Defence  
50%

Civil  
50%

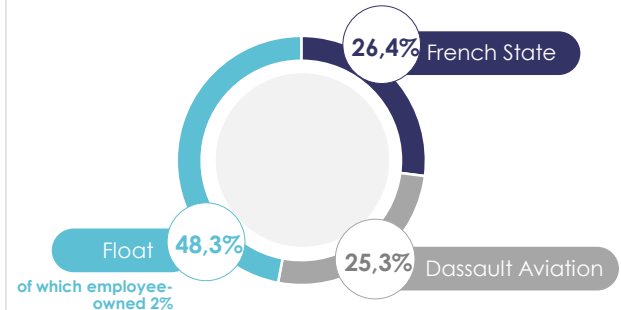


Revenues in 2014

**13** billion euros

Shareholders

(at 31 December 2014)



OPEN

THALES

## DUAL MARKETS Military & Civil



**AEROSPACE**



**SPACE**



**GROUND  
TRANSPORTATION**



**DEFENCE**



**SECURITY**

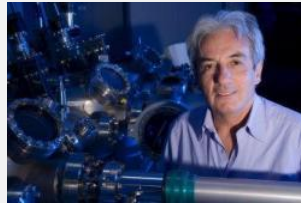
**TRUSTED PARTNER FOR A SAFER WORLD**

OPEN

# A strategy driven by innovation

## Long-term vision

- **Self-funded R&D: 675 million euros**
- **Focus on key technical domains**
  - Complex systems
  - Hardware (sensor technologies)
  - Software
  - Algorithms and decision support
- **Open research policy**
  - International network of research centres
  - Cooperation with academic and government research institutes worldwide
- **Focused product policy**
  - Shorter development cycles
  - Risk reduction



**ALBERT FERT**  
scientific director of the CNRS/Thales joint physics unit and winner of the 2007 Nobel Prize in Physics.



Some **25,000** Thales employees, over **70% of them engineers**, are involved in the Group's technical operations from research to engineering.

Inventing tomorrow's products today

OPEN

# Secure Communications and Information Systems (SIX) Networking laboratory

## Secure Communications & Information Systems

Radio Communication Products  
Network & Infrastructure Systems  
Protection Systems  
Critical Information Systems and  
Cybersecurity

**4G/5G  
Networks**

5 PhDs  
(incl.  
2 University  
1 CIFRE  
1 ex Ass Prof)

14 staff  
3 PhD students

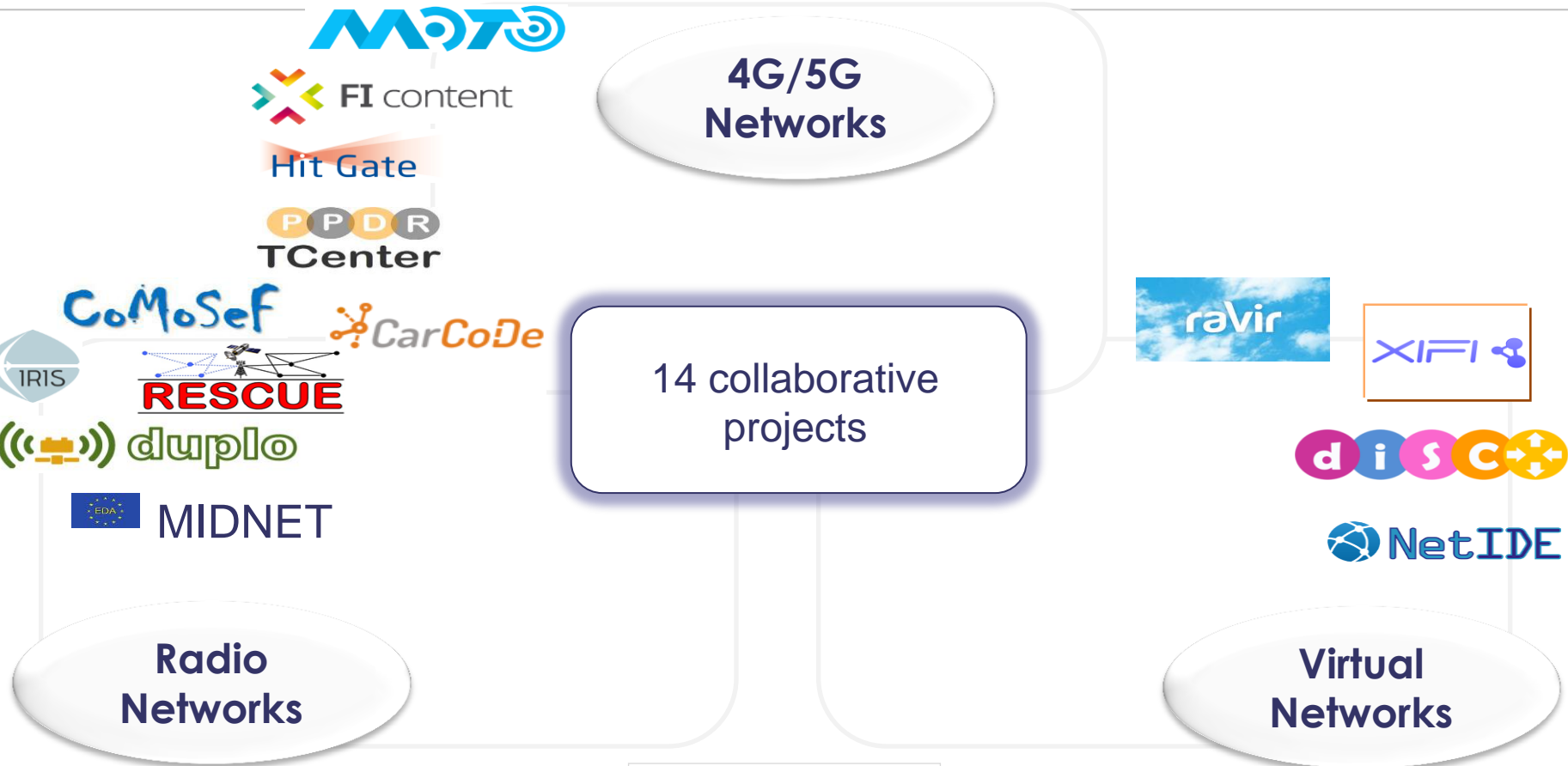
**Radio  
Networks**

**Virtual  
Networks**

OPEN

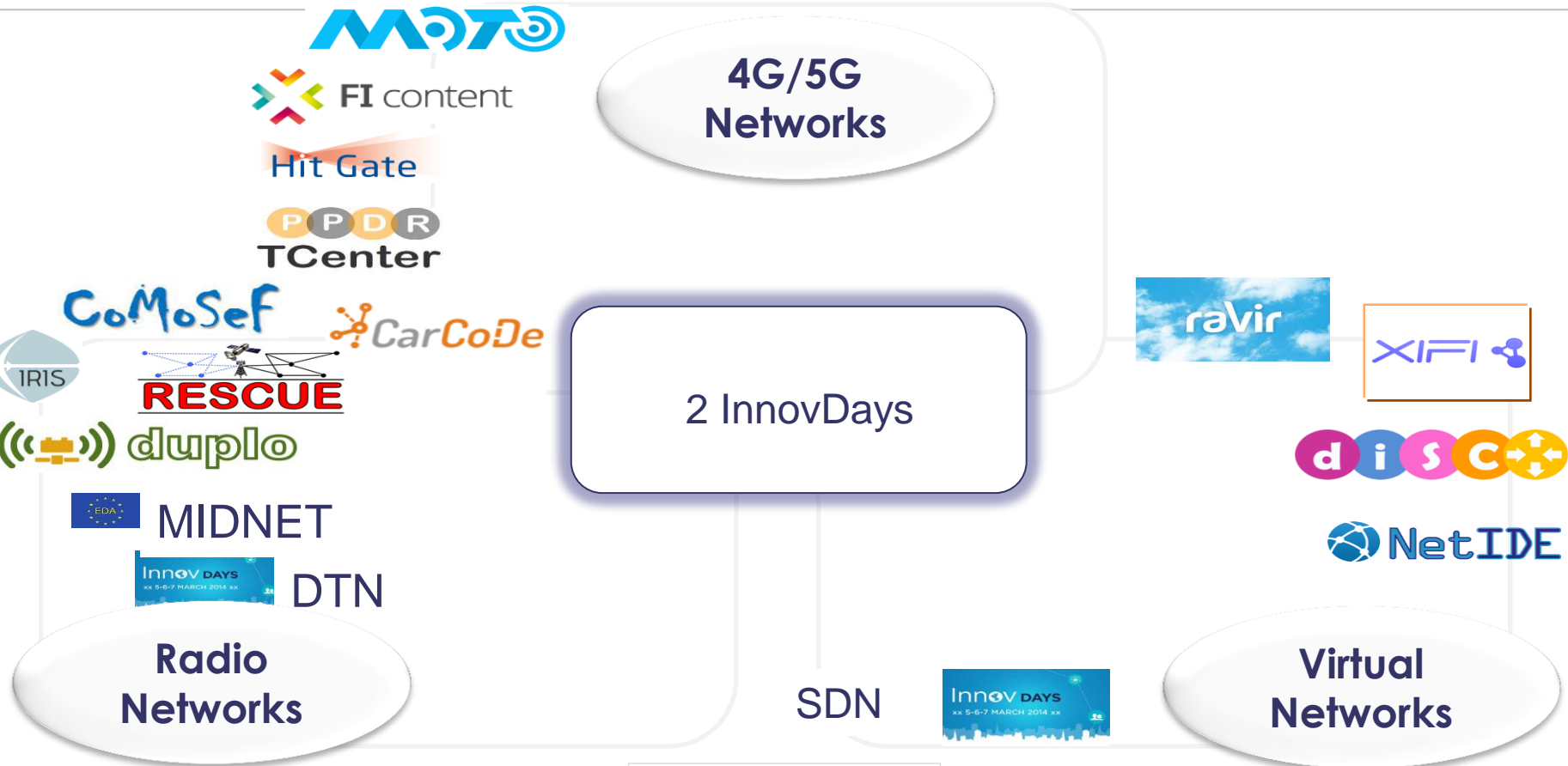
# In 2014

This document may not be reproduced, modified, adapted, published, translated, in any way, in whole or in part or disclosed to a third party without the prior written consent of Thales. © Thales 2015 All rights reserved.



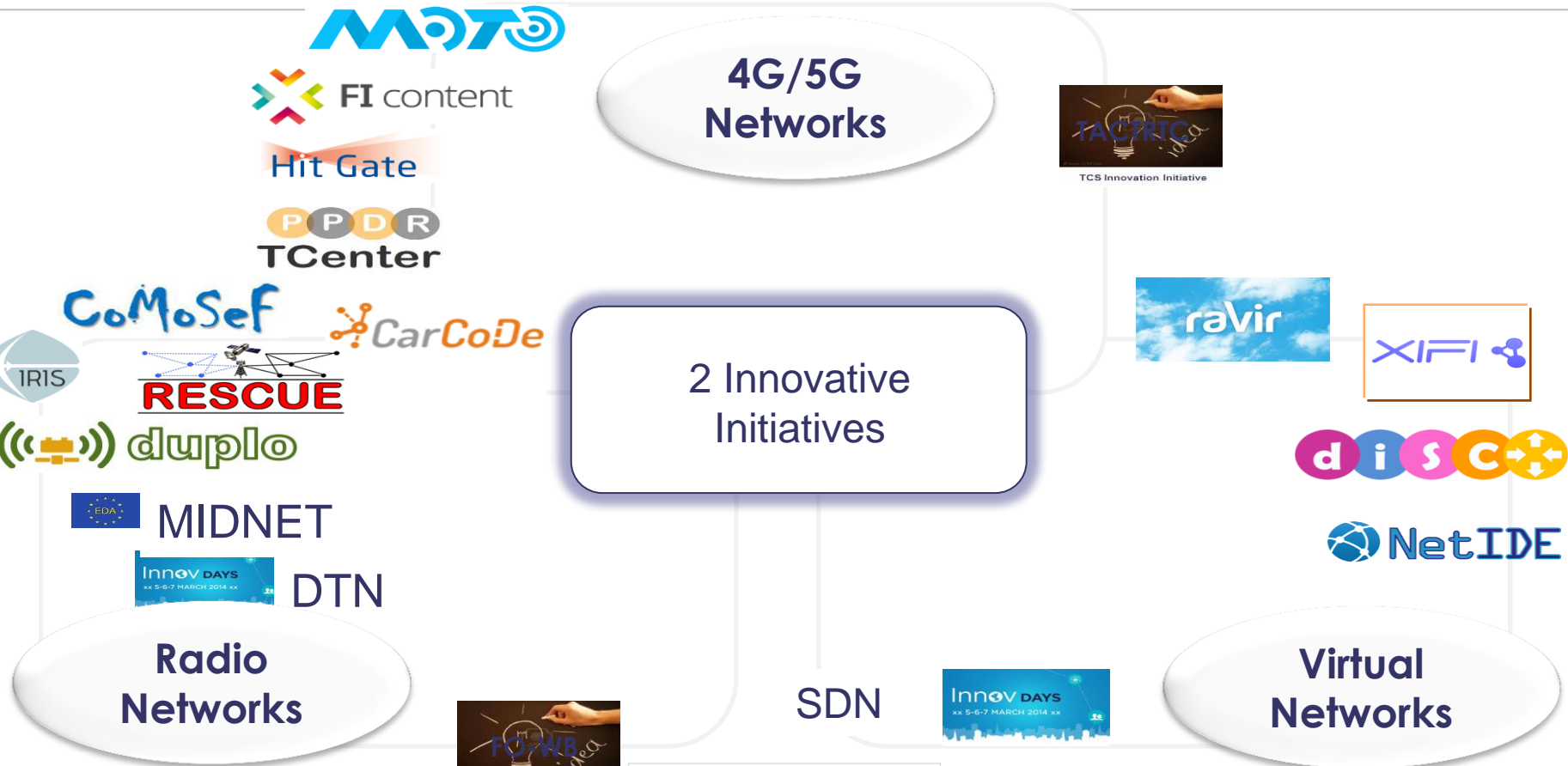
# In 2014

This document may not be reproduced, modified, adapted, published, translated, in any way, in whole or in part or disclosed to a third party without the prior written consent of Thales. © Thales 2015 All rights reserved.



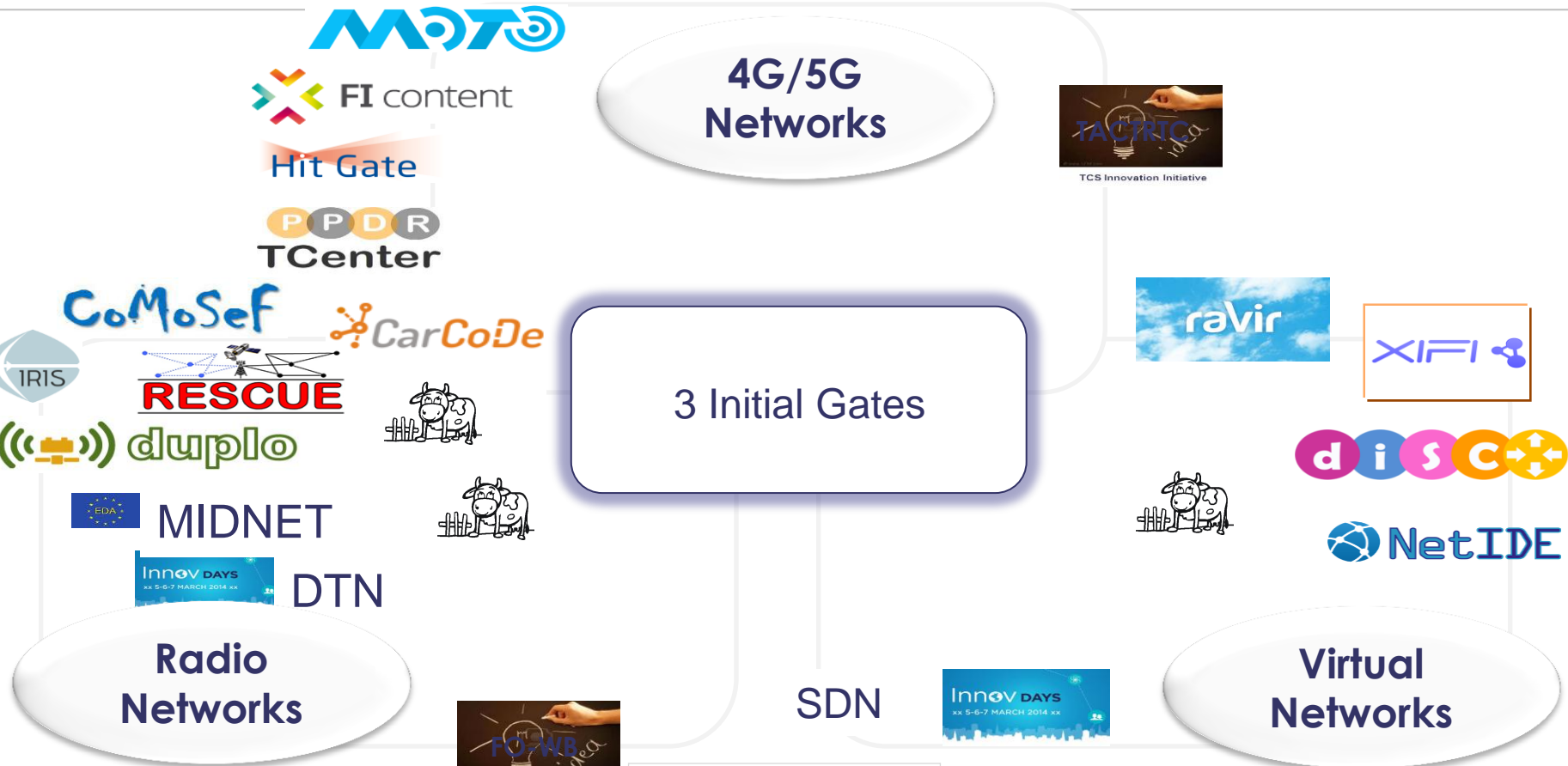
OPEN

This document may not be reproduced, modified, adapted, published, translated, in any way, in whole or in part or disclosed to a third party without the prior written consent of Thales. © Thales 2015. All rights reserved.

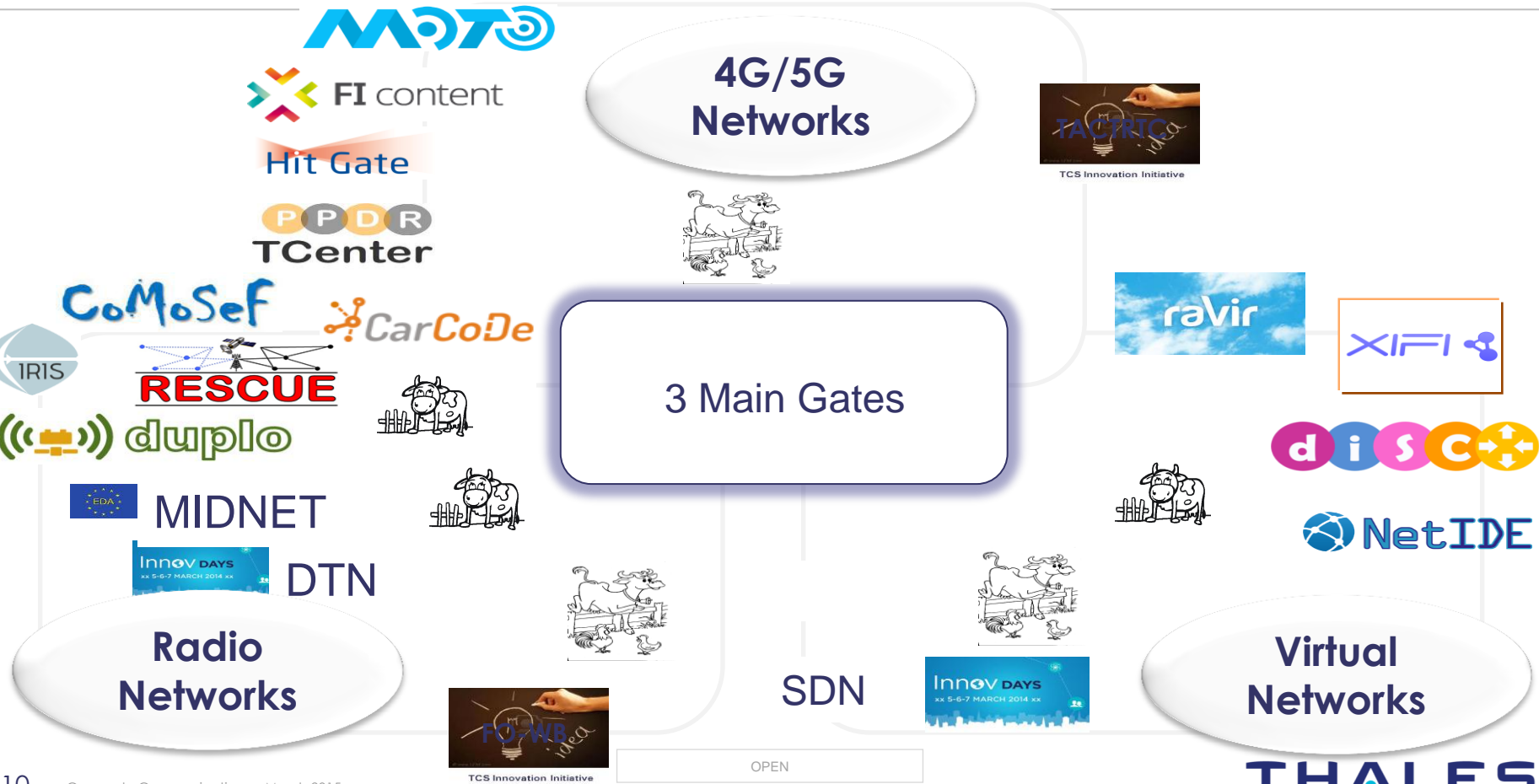




This document may not be reproduced, modified, adapted, published, translated, in any way, in whole or in part or disclosed to a third party without the prior written consent of Thales. © Thales 2015. All rights reserved.



This document may not be reproduced, modified, adapted, published, translated, in any way, in whole or in part or disclosed to a third party without the prior written consent of Thales. © Thales 2015 All rights reserved.



# In 2014

- 9 publications
- Mathis Obadia, Mathieu Bouet, Jérémie Leguay, Kévin Phemius, Luigi Iannone **Failover Mechanisms for Distributed SDN Controllers** In Proceedings of IEEE SCNS 2014, Dec. 2014
- K. Phemius, M. Bouet and J. Leguay. **Distributed SDN for for Mission-critical Networks** in Proceedings of IEEE MILCOM 2014, Oct. 2014
- K. Phemius, M. Bouet and J. Leguay. **DISCO: Distributed Multi-domain SDN Controllers** in Proceedings of IEEE NOMS 2014, May 2014
- Catherine Lamy-Bergot, Hicham Khalife, Jean-Baptiste Chantelouve, Hélène Diakhaté & Jean-Luc Rogier **Empowering HF systems with cognitive wideband radio capabilities** Proceedings of NATO IST symposium 2014
- Jawad Seddar, Hicham Khalife, Vania Conran **Cognitive radio ad hoc networks** Proceedings of the 8<sup>th</sup> Karlsruhe workshop on software defined networks
- Jérémie Leguay, Julien Boite **Connectivity in Ad Hoc Networks** AdHocNow 2014
- F Rebecchi, M Dias De Amorim, V Conran **Unicast Better than Device-to-Device Communications?** Ninth ACM MobiCom (2014)
- F Rebecchi, M Dias De Amorim, V Conran **Unicast Pays Off in Mobile Data Offloading** IFIP Networking 2014 (2014)
- A. Tatar, T. Phe-Neau, M. Dias de Amorim, V. Conan, S. Fdida **Beyond contact predictions in mobile opportunistic networks** Wireless On-demand Network Systems and Services (WONS), pp.65,72, 2-4 April 2014
- 3 patents
- Kevin Phemius, Jérémie Leguay, Mathieu Bouet, Guillaume Klech, Christophe Lecanuet **Procédé et système de gestion de la conversion unicast / multicast pour les communications multimédia de groupe dans les réseaux de télécommunication**
- Julien Boite, Jérémie Leguay et Serge Hethuin **Procédé d'attachement dans un réseau mobile ad hoc à base de technologie cellulaire**
- Farid BENBADIS, Jérémie Leguay, Vania CONAN et Florian COSNIER. **Procédé de diffusion et synchronisation de données dans un réseau mobile opportuniste)**

9 publications  
3 patents

# Which life after the lab ?

- Senior expertise
- R&T Management
- System designer (in programmes)
- Innovation manager (in a business unit)
- SW development manager (new product, agile methodology)
- Sales – responding to call for tenders



OPEN

# Which life after the lab ?

- Senior expertise
- R&T Management
- System designer (in programmes)
- Innovation manager (in a business unit)
- SW development manager (new product, agile methodology)
- Sales – responding to call for tenders



OPEN

# Thank you !

This document may not be reproduced, modified, adapted, published, translated, in any way, in whole or in part or disclosed to a third party without the prior written consent of Thales - © Thales 2015 All rights reserved.

OPEN