



**AIOTI**

ALLIANCE FOR INTERNET OF THINGS INNOVATION

**Presentation to ITAC**

**IoT International Symposium, Tokyo, Mar 29<sup>th</sup> 2017**

Thomas Walloschke, Fujitsu – AIOTI WG11 Interim Chair

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# Agenda - IoT International Symposium 2017

- **AIOTI Presentation overview**
  - Europe IoT market: opportunities and challenges
  - Key Policy initiatives
  - AIOTI presentation
- **Potential areas for collaboration with ITAC**

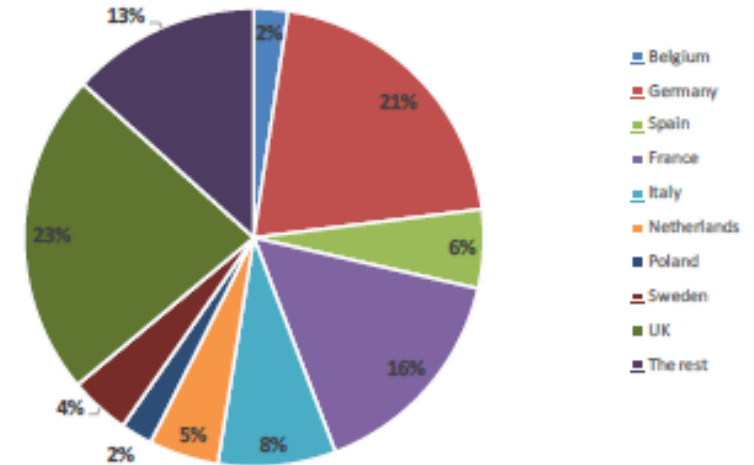
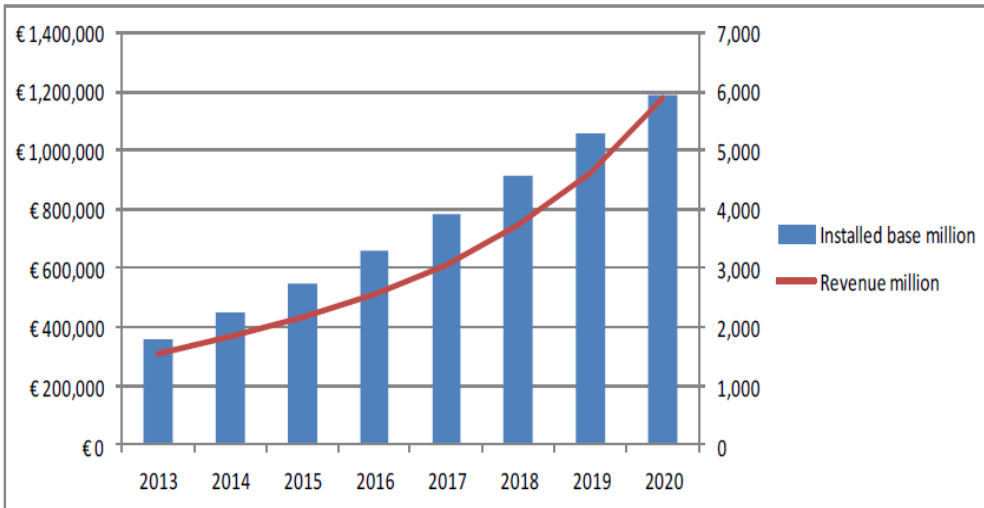


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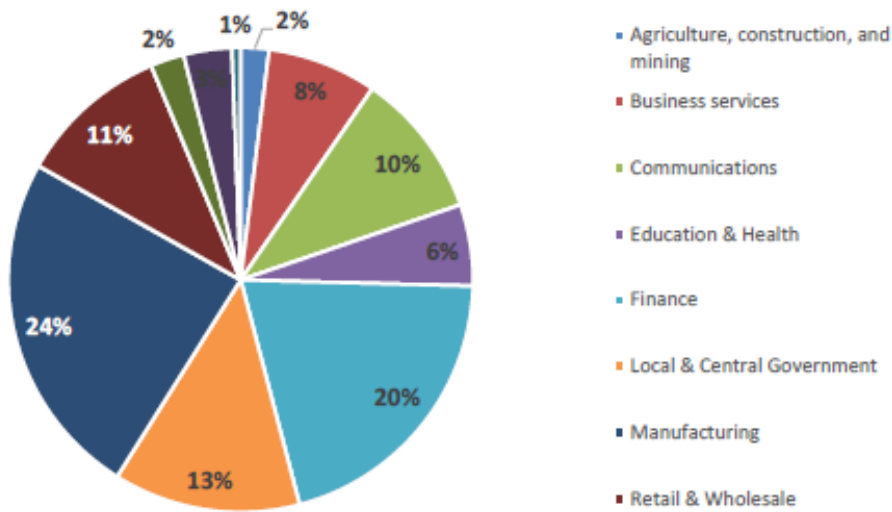
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# Europe's IoT Market: Opportunities for Growth

IoT by Country 2020



IoT By Vertical 2020



## The Technology Push

- ❖ Enhanced connectivity infrastructure.
- ❖ Cloud computing. With access to scalable virtualized resources over the Internet.
- ❖ Big Data.
- ❖ The increasing role of smart devices.
- ❖ Horizontal Platforms.

## The Demand Pull

- ❖ Demographic trends.
- ❖ Environmental consciousness.
- ❖ Public Sector driving role.
- ❖ Business demand.
- ❖ Consumers demand.

Source IDC report 2014



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# Europe's IoT Market: key challenges



**Rapid technological development**



**Users' take up and acceptability**



**Need to move into deployment**



**Risk of fragmentation**



**International competition**

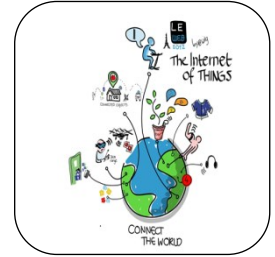


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# What has the European Commission done until now?

- [Alliance for Internet of Things Innovation \(AIOTI\)](#)
- [Digital Single Market \(DSM\) Strategy](#)  
to avoid fragmentation and to foster interoperability for IoT
- [Advancing the Internet of Things in Europe](#)  
as part of the "[Digitising European Industry \(DEI\)](#)"
- [2016 review of the EU telecoms rules](#)  
to promote an interoperable IoT numbering
- [European data economy](#)  
contributes the creation of a European single market for IoT
- [IoT research and innovation objectives](#)  
in Horizon 2020 programme



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# History of AIOTI



- **March 25, 2015:**  
**Launch of AIOTI as an informal Group**
  - Oct 2015: Recommendations for the H2020 call for Large Scale Pilots
  - Dec 2015: Decision to create a legal structure for AIOTI
- **Sept 2016:**  
**AIOTI established as an Association under Belgium law**
  - Nov 11, 2016: first General Assembly of the new association
  - March 2017: 170 members have already joined the association



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# AIOTI Publications

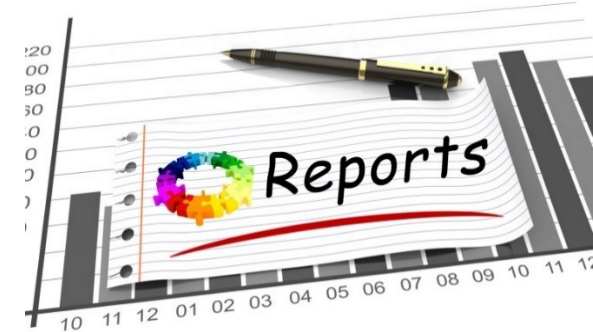
- Recommendation reports for H2020 LSPs in Sept/Oct 2015

<https://ec.europa.eu/digital-agenda/en/news/aioti-recommendations-future-collaborative-work-context-internet-things-focus-area-horizon-2020>

- Updates and other reports since then available on the AIOTI web site

<https://www.aioti.eu/>

- IoT semantic interoperability paper  
Joint work with W3C, oneM2M, IEEE P2413
- Digitization of Industry – Policy recommendations
- Workshops reports



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# AIOTI Mission

- Contribute to **Large Scale Pilots** to foster experimentation, replication and deployment and to support convergence & interoperability of IoT standards
- **Develop IoT ecosystem across vertical silos** including start-ups and SMEs
- Identify, communicate and **champion EU spearheads** to speed up the take up of IoT
- Gather evidence on market obstacles for **IoT deployment** in a Digital Single Market context
- **Mapping & Bridging** global, EU and Members States' IoT innovation activities.

**AIOTI is NOT a Standard Development Organization**



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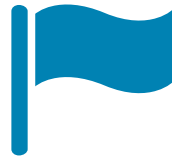
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# AIOTI Mission Areas

## Deployment

- Identify barriers
- Gather evidence
- Contribute to the Digital Single Market



## IoT Uptake

- Identify spearhead players
- Communicate
- Champion

## IoT Ecosystem

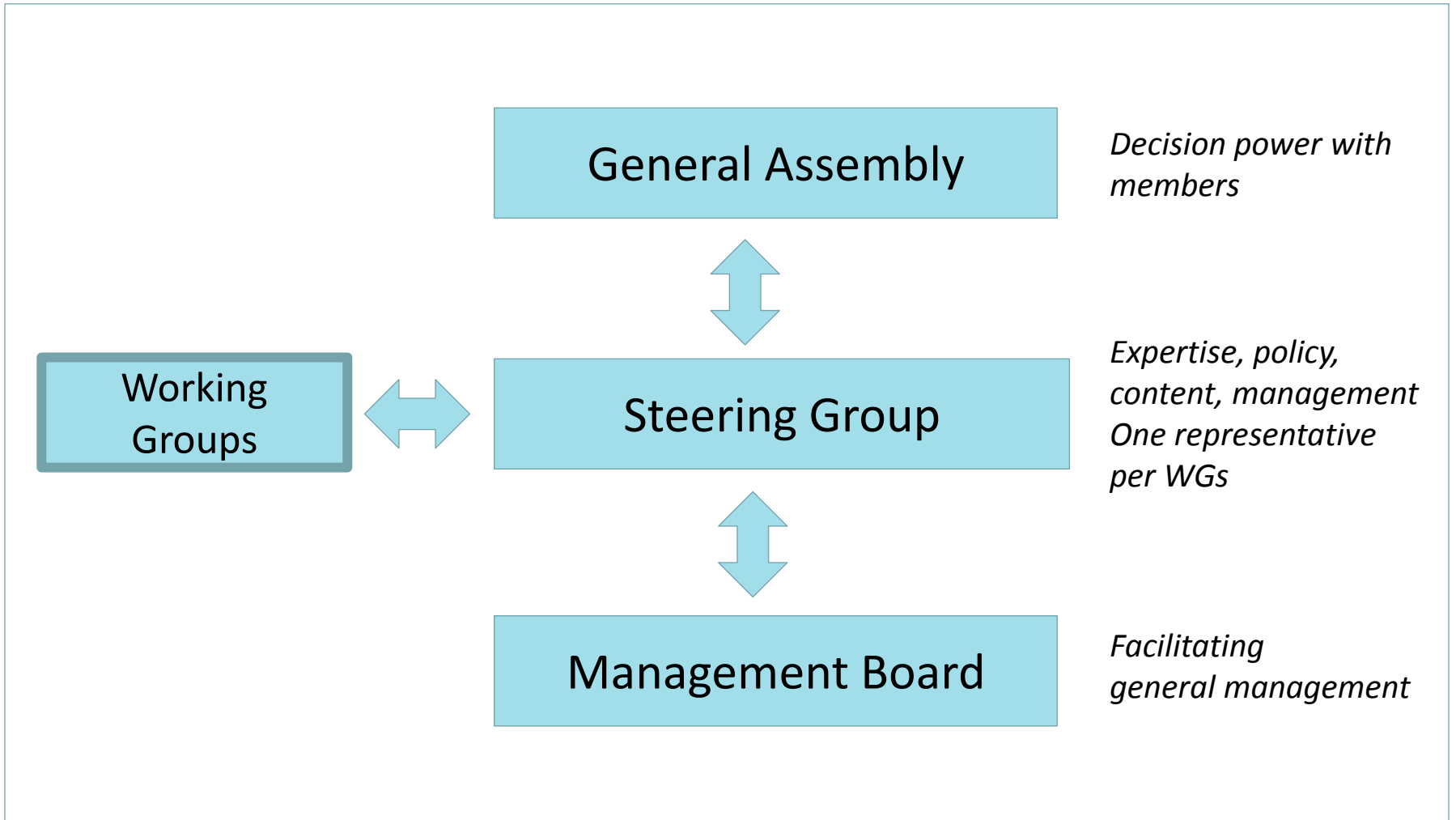
- Build across different application areas
- Mapping and bridging of IoT innovation activities
- Encourage the growth of start-ups in IoT

## H2020 Large Scale Pilots

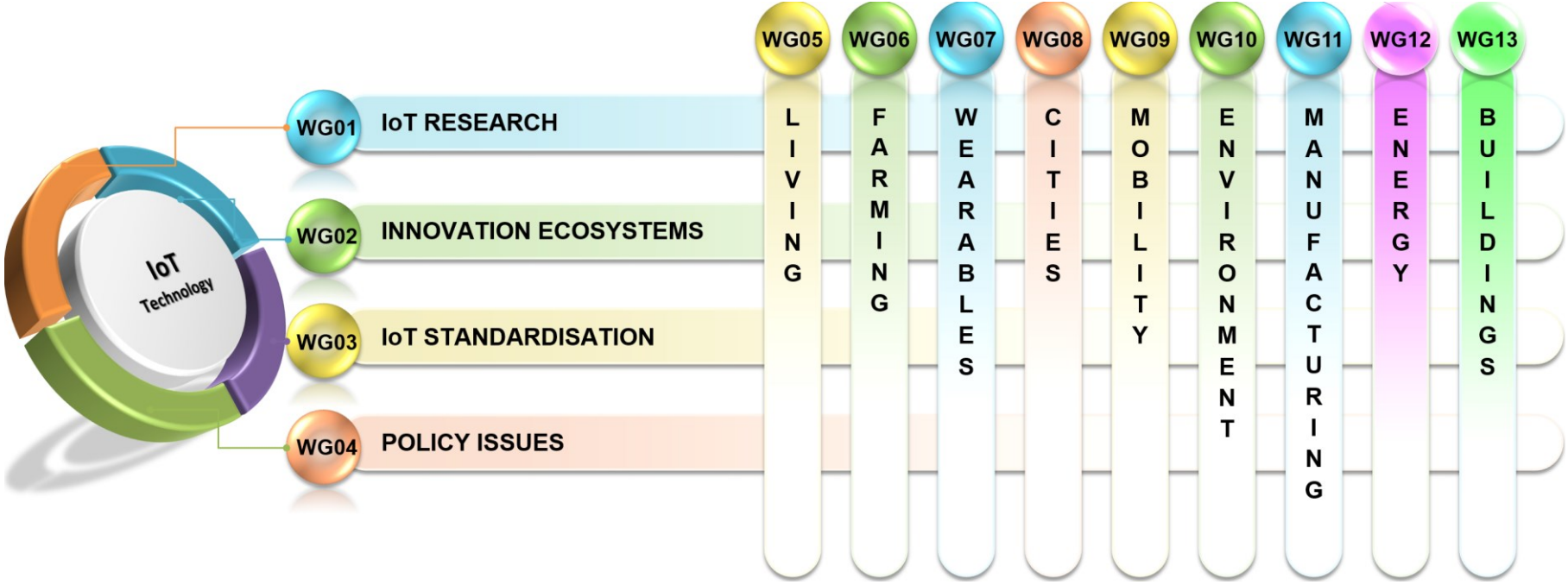
- Experimentation, replication, deployment
- Convergence
- Interoperability



# AIOTI Governance structure



# AIOTI Working Groups



# Positioning AIOTI for the next phase

- Transformed into a legally recognized Association
- **21 Founding Members**
  - Drafted Articles of Association and By-Laws
  - Providing startup capital
  - Critical engagement
- **Principles going forward**
  - Same vision, mission, goals
  - Low fee, established budget
  - Member driven
  - Equal rights, equal obligations (IoT style)
  - Empowerment of Working Groups and Steering Board
  - Participative membership
  - Enabling by Management Board
- **Elections for all key positions**



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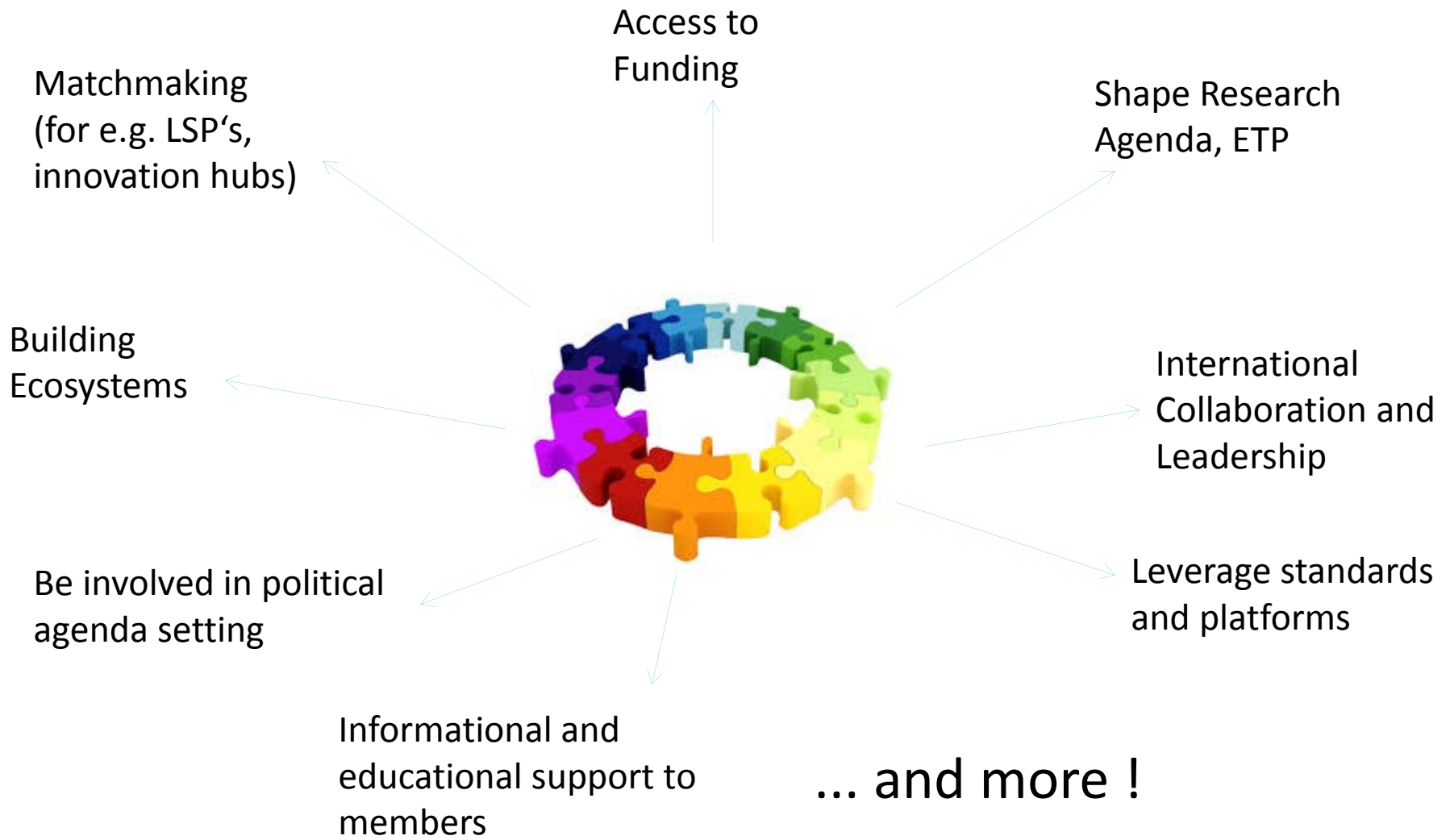
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# AIOTI and Large Scale Pilots (LSPs)

- Five EC H2020 IoT LSPs kick-off January 2017 with total Budget 100 Mio EUR :
  1. **Smart Living** for aging well : ACTIVAGE ( 20 MilE)
  2. **Smart Farming** and **Food Security**: IoF2020 (30MilE)
  3. **Wearables** for Smart Ecosystems: MONICA (15 MilE)
  4. **Reference zones** in EU Cities: SYNCHRONICITY (15MilE)  
(kicked off during 12 January OASC **connected-smart-cities**-conference-2017)
  5. **Autonomous vehicles** in a connected environment: AUTOPILOT (20MilE)
- EC H2020 CSA (Coordination and Support Actions)
  - CREATE-IoT
  - U4IoT (4MilE)
- Five IoT LPS Pilots, two IoT LSP CSA, AIOTI and IoT research cluster (IERC/IoT-EPI) are well connected and are ready for collaboration
- All H2020 IoT LSP coordinators met at EC on 11 January horizontal IoT Research Cluster IoT-LSP Activity Groups to facilitate IoT LSP cooperation



# AIOTI Plans ahead...



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# AIOTI Events (2017)

## Workshops

- IoT Security and Privacy – Jan 13, 2017 (EC/AIOTI)
- IoT Platforms & Standardization – Feb 7-8, 2017 (EC/AIOTI)

## MatchMaking

- Matchmaking event – Feb 15, 2017

## Workshop

- IoT Strategy Workshop – May 3-5, 2017

## General Assembly

- Second General Assembly – Jun 29, 2017



# AIOTI International Collaboration

- Memorandum of Understanding with **Brazilian Camara de IoT** signed on 28 February 2017 during MWC in Barcelona
- Memorandum of Understanding with **Japanese IoT Accelerator Consortium** signed on 20 March 2017 during CeBIT in Hannover



[https://m.youtube.com/watch?v=1\\_pJ8vRjTok](https://m.youtube.com/watch?v=1_pJ8vRjTok)



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# Potential areas for collaboration with ITAC (Proposal)

## Learn from JP Society 5.0 Insights

- What scenarios have to be proposed to society and to people?
- What does Digitalization mean in terms of moving to digital business?
- What messages are addressed to SMEs and SME clusters?
- What will be proposed to industry and markets?
- What IoT use-cases and deployment scenarios are essential?

## Create a holistic and global IoT approach

- Determine IoT DNA of Security & Privacy (By-Design-Concept)
- Develop multi-view reference architecture cross verticals
- Ensure cross-domain interoperability (including semantics)



# Potential areas for collaboration with ITAC (Cont'd)

## Achieve global Investment goals

- Use common IoT Standards & Global IoT vocabulary (WG3/WG4)
- Understand SME + Industry economic needs and gaps
- Setup interoperability to ensure global adoption and scaling of IoT
- Comprehensive understanding of key moving parts of economy
- Driving key figures AI, Security, IoT and Analytics

## Understand & Act!

- Research, innovate and collaborate in H2020 LSPs
- Build JTGs to push Japanese and European SME global collaboration
- Setup Industrial Internet security, interoperability and collaboration
- Catalyze SME's IoT innovation
- Educate and reskill people, create new jobs



Let's work together

**Thank you !**

<https://www.aioti.eu/>

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