euroPean stRatEgic cluSter parTnershIp to Go InternatiOnal for Uav Smes









Co-funded by the COSME programme of the European Union







Webinar Agenda

11.	A
Horario	Actividades

16:00 Resultados PRESTIGIOUS sobre la cadena de valor europea de drones.

Mélanie Durth – Responsable de proyectos e innovación en ANDALUCIA AEROSPACE

16:15 Cómo desarrollar su negocio en Chile.

Nicola Ybarra – Jefe de proyecto de la Antena de EXTENDA en Chile

16:25 Contexto general del sector drones en Chile.

José Merino – Presidente de APANT Chile

Loreto Moraga – Presidenta de ACHHEL

Sebastian Orellana - Gerente General de FCODRONES.

16:55 Preguntas.

17:10 **Pitch Session** (2min/empresa).

Comentarios. 17:30

17:40 Cierre.









✓ **PRESTIGIOUS** is an European project co-funded by the Cosme programme of the European Union to

General Information



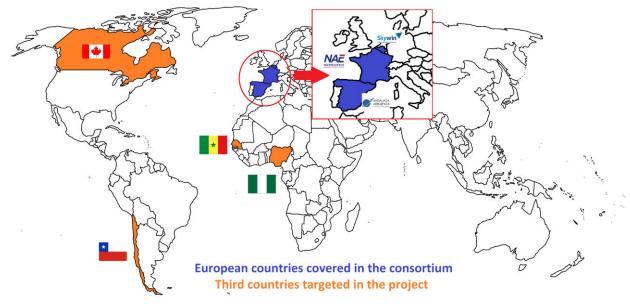
STRENGTHEN THE COMPETITIVENESS AND SUSTAINABILITY OF "DRONES" SMES IN EUROPE

In 2 markets





for 4 non-european countries



with 3 partners







Canada / Chile / Nigeria / Senegal









4 Main actions

✓ Assessment of the value chain for drones in Europe

Identify the strengths of European SMEs

✓ Organization of 3 missions to non-European countries

- Identify potential end users outside Europe
- North America (Canada)
- Central Africa (Nigeria, Equatorial Guinea)
- South America (Chile)

✓ Supply of individual support for European SMEs

Organization of training seminars for the transfer of information

✓ Preparation of a joint internationalization strategy

Roadmap to establish a European strategy for drones



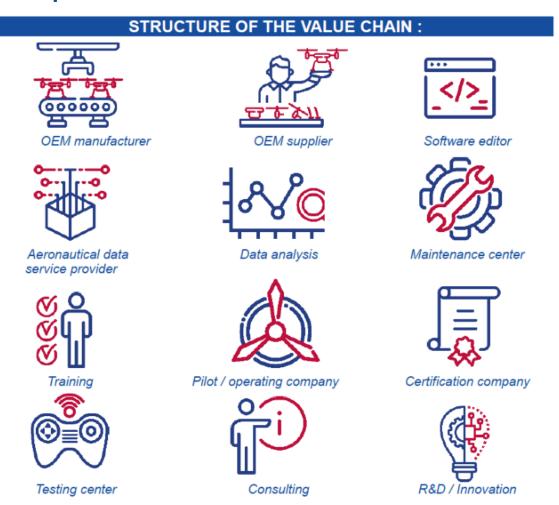






European Value Chain

✓ Objective: define the "Inspection" and "Security" value chain in Europe and identify where the European players are positioned on the value chain.







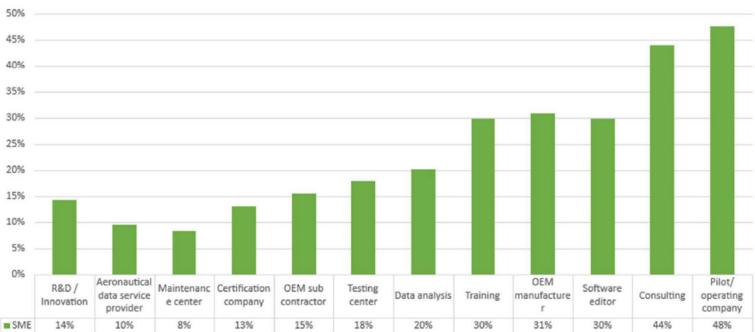




European Value Chain

✓ Drones activity: Information gathered from 84 European companies – among which 77 SMES





The main areas covered by short of 50% of the responding European companies are "Consulting" and "Pilot/operating Company".







European Value Chain

✓ Priority market detail: Information gathered from 38 European companies



Market still in the maturation phase









European Value Chain

✓ Interviews to go further in results details

- 5 from Belgium: companies from 3 to hundreds of employees
- **■** 1 from Spain
- 2 from Denmark: startup & SME









European Value Chain

✓ Main conclusion:

- Business is mainly national
- Access to other countries (EU or non-EU) remains difficult
- Market size is still limited
- China and the USA are a major part of the current drone hardware value-chain (OEMs and part suppliers) for the European actors
- European companies are open to EU-based solutions if
 - price is the same for the same quality
 - quality is higher
- Drones and satellites are considered as complementary regarding Earth Observation (inspection in agriculture, forestry, sea, as well as security)
- Certification is a strategic issue. EU is late compare to the USA.
- There is an opportunity for drone (spare) parts production in the EU









✓ IRL maturity results

Based on the analysis of different criteria, the SMEs has been classified according to 5 levels:

- IRL0: Neither international activity;
- IRL1: Wish to go international but without a roadmap;
- IRL2: Beginning international activity with a roadmap;
- IRL3: International activity;

Objective: Check the capability of SMEs to address the global UAV market.

Information gathered from 30 SMES



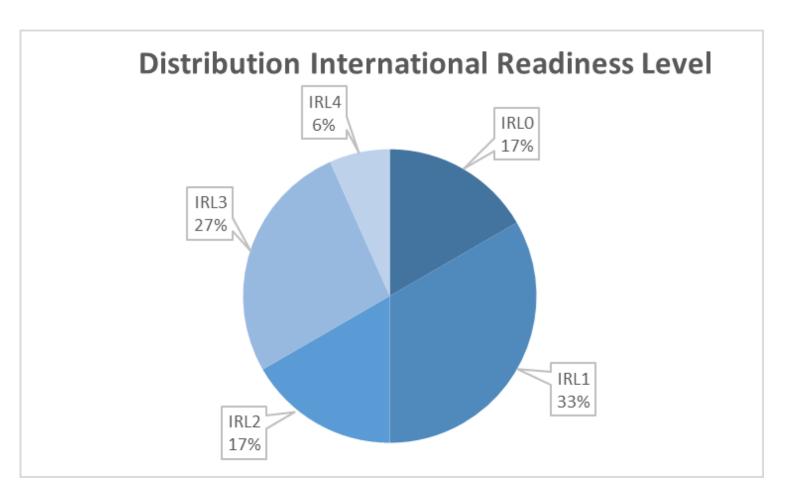






IRL maturity

✓ IRL maturity results



50% of drone companies are structured to develop internationally (IRL 2 to 4)

Or 12% (from the 122 companies reached out)

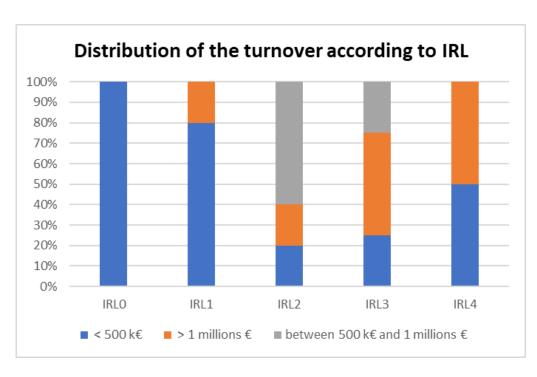


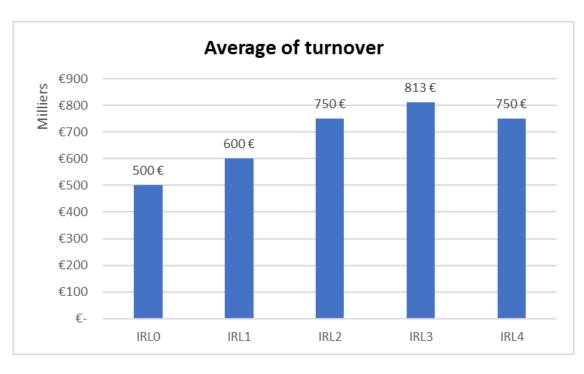




IRL maturity

✓ Impact of turnover on the IRL maturity level





no apparent correlation between turnover and maturity to grow internationally

higher the average of turnover, the higher the maturity level.



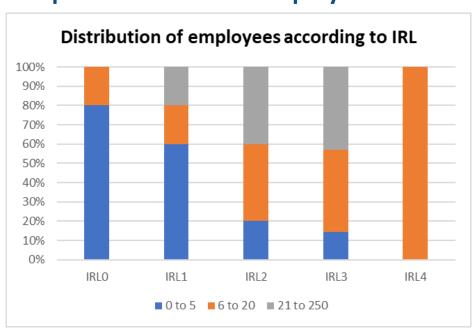


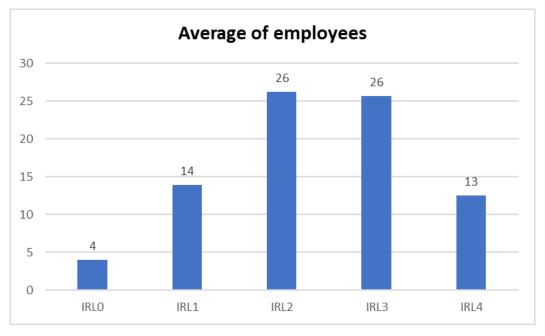






✓ Impact of number of employess on the IRL maturity level





no apparent correlation between number of employees and maturity to grow internationally



Key figures of a drone company able to address international markets

>26 employees

~800k€ of turnover





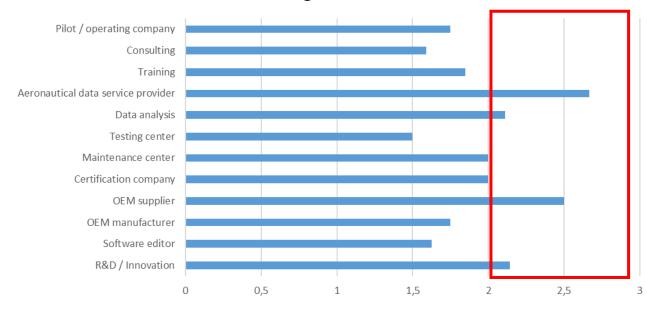






√ Value chain and IRL

Average IRL for each brick of value chain



Players working on the following 4 main bricks of the chain have a higher maturity and capability of developing internationally:

- Aeronautical data service provider
- Data analysis
- OEM Supplier
- R&D / Innovation





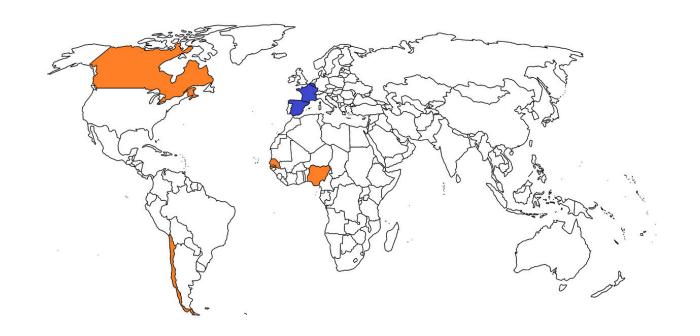


International Missions

✓ Organization of 3 missions to non-European countries

The countries visited in the scope of the international Fact-Finding Mission were:

- Canada (visit to Montréal, Québec)
- Chile (Santiago de Chile)
- Senegal (remote)
- ➤ Nigeria (remote)













✓ Economic environment data

	Canada	Chile	Nigeria	Senegal	
Population (Millions)	39	19,8	206,1	17	
GDP (bn USD)	1991	353	432	25	
GDP by inhabitant (USD)	51051	17828	2096	1471	
Balance of trade (% GDP)	0,16	2,16	0,39	-15,5	
Employment (%)	60,3	54,9	66,7	56,1	
Unemployment rate (%)	5,2	8	33	22	
Life expectancy	81,7	80.3	68.2	55.0	

✓ Contribution to GDP of following sectors (in billion USD)

	Canada	Chile	Nigeria	Senegal
Services	1150	165	223	12
Mining	122	46	31	0,6
Manufacturing	170	25	51	3,5
Agriculture, forest, fish	47	10,4	103	4,2

GDP values by sector are indicators of business potential for drones in that industry

International Missions









International Missions

✓ Potential of specific market

	Canada	Chile	Senegal	Nigeria
Long range Inspection (power- & pipe-lines)	Х	X	X	X
Inspection of towers (telecom)	Х			
Security (borders, infrastructures and agriculture)		X	X	X
Agriculture, vegetation monitoring	Х	X	X	X
Environmental monitoring	Х	X	X	
Mining	Х	X		X
Arctic and cold weather operations	Х			
Photogrammetry & mapping	Х	X	X	
Training			X	X
Material (aircrafts, payloads)			X	X
Drone detection	Х		X	
R&D (any topic)	Х			

- Long range inspection is a common need
- Security aspect less covered in Canada: already historically implemented in aerial and defense related solutions -> demonstration of the maturity of the market
- "Drone detection" category:

Senegal: counter-UAV solutions regarding invading drones Canada: R&D regarding integrated airspace management.









International Missions

√ high-level recommendations regarding a first approach on these specific markets:

Canada

- Seek R&D partners in any high-tech area
- BVLOS, U-Space and 'cold condition flight' development
- For existing solutions: use test ranges to benchmark EU vs existing local solutions (incl BVLOS)

Chile

- Favor operations outside of the populated areas, where regulation is less strict
- Agro-forestery monitoring (growth, counting and intrusion detection) is in demand
- The needs is the mining industry is wide: site monitoring (safety and production volume), equipment maintenance (fixed and moving), exploration for new resources.

Senegal and Nigeria

- As the markets and access to business and drone-operation authorizations are still sometimes unguaranteed, explore these markets if strong local contact exists and business case (including regulatory) is demonstrated.
- Economically robust EU organizations may find an opportunity to saw the seeds and help the local institutions define a favorable UAV roadmap. Advice and support from your country's/regions's local economic/business agency is highly recommended.











For you

✓ Be referenced in the European value chain of "drones"







TO BENEFIT FROM PRESTIGIOUS, **COMPLETE THE SURVEY - HERE**













✓ NAE

- ✓ Created in 1998 (more than 160 members)
- ✓ Network for air, space, defense and security businesses in Normandy
- ✓ Cover all aspects of the drone industry (training, R&D, drone fleets, Artificial Intelligence, test and pilot centers)



✓ Andalucia Aerospace

- ✓ Created in 2018 (60 members 40 SMEs)
- ✓ Cover several sectors for the use of drones (indoor inspection, inspection of coastal areas, agriculture, safety, etc.)



✓ SKYWIN

- ✓ Created in 2007 (158 members 111 SMEs)
- ✓ Focus on development of applications, sensors, control systems, ...

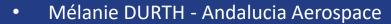












Samuel CUTULLIC - NAE

Anthony BIEVELEZ - Skywin





More information scan here

