



step by step
renovation
towards nearly
zero energy
SPORT buildings

Sport sector and its impact on energy consumption

Alex Rivera - INDESCAT



Final Dissemination Event
21 February 2017, Brussels



Co-funded by the Intelligent Energy Europe
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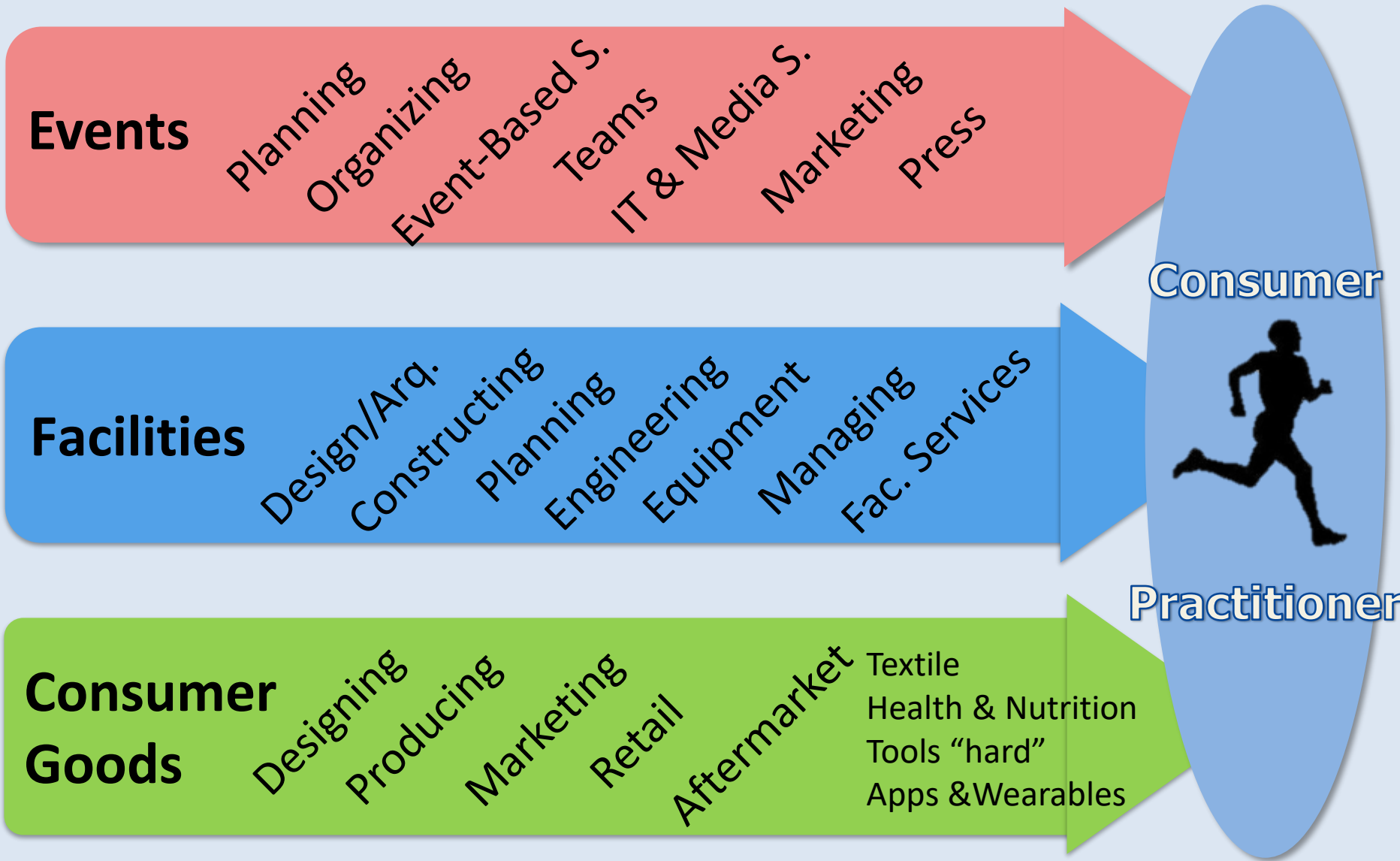
- **Catalan Sports Industry – INDESCAT**
- Our experience in energy consumption and efficiency – EFISPORT



Cluster Presentation

January 2017

What is sports industry?



The Catalan Sports Industry

Events

Planning
Organizing
Event-Based S.
Teams
IT & Media S.
Marketing
Press

>600 companies...

Facilities

Design/Arq.
Constructing
Planning
Engineering
Equipment
Managing
Tec. Services

...i 4.000M€

Consumer Goods

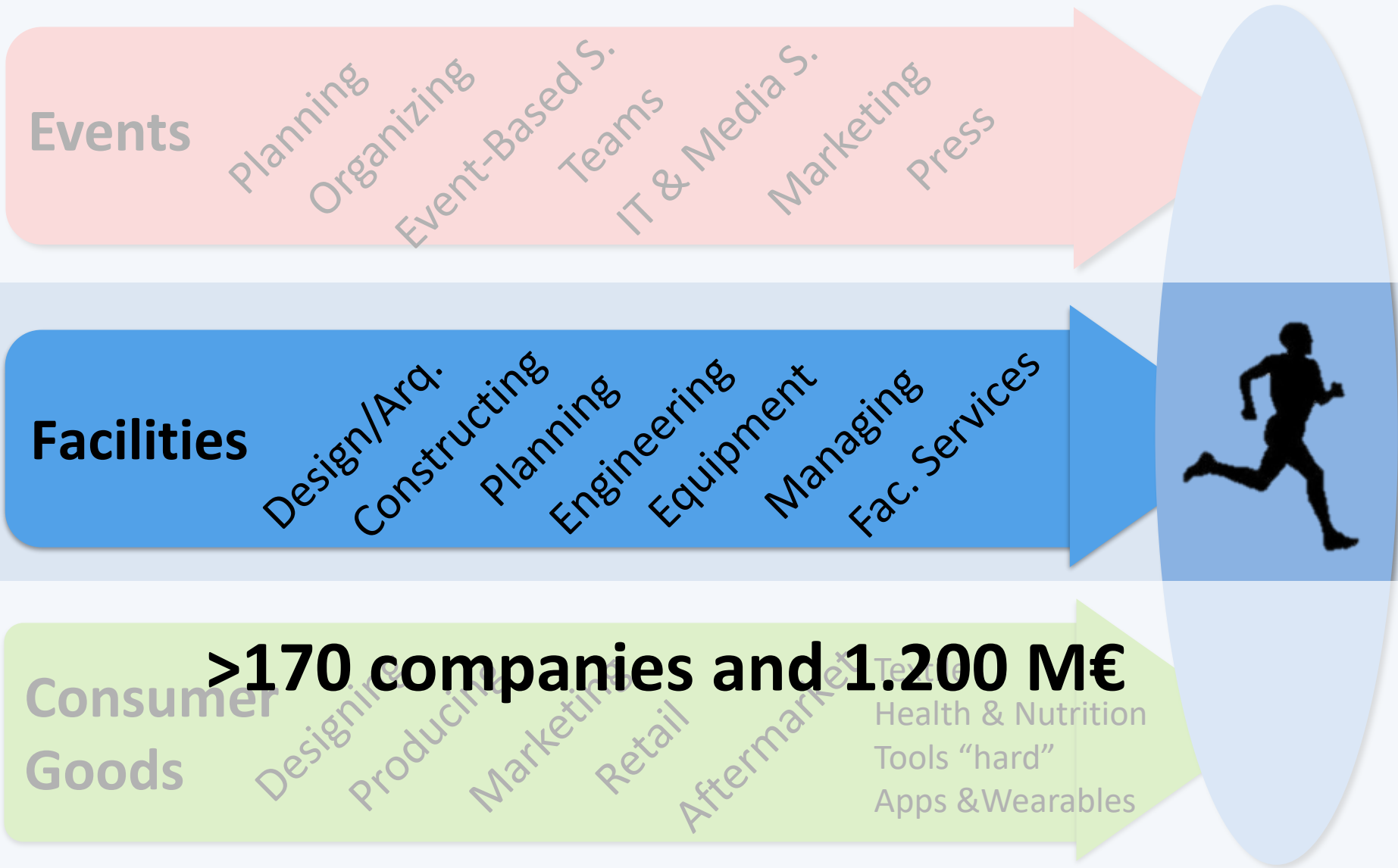
Designing
Producing
Marketing
Retail
Aftermarket
Textile
Health & Nutrition
Tools "hard"
Apps & Wearables

Consumer



Practitioner

The Catalan Sports Industry



74 members

						<p>T'hi apuntes? www.indescat.org</p>		

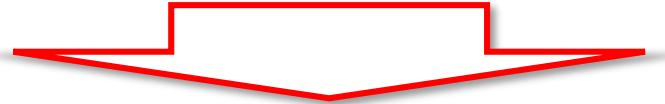


10 Reasons we are a Sports World Capital

1. Sports power: major **clubs** and sports **practitioners**
2. Organizer of top international sports **events**
3. Top level facilities and **infrastructure**
4. Land of sportsmen: **talent, training** and **education**
5. Home of major **companies** and leading **brands**
6. **Headquarters** of major foreign sports companies
7. Sports **tourism**: a perfect location with perfect conditions
8. Leader on **ICT, Health** and **Research and Development**
9. The **Barcelona** Brand: much more than a city
10. INDESCAT: the Catalan Sports Industry **Cluster**



Relationships



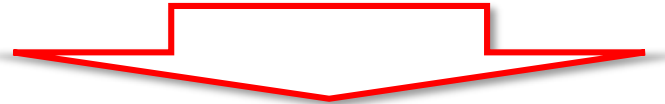
Trust



Opportunities



Agreements



Results

Value Proposition



One thing in common among all members:
Sport as a language with consumers



A cluster:
We are not an association, we go faster!



A vision:
Barcelona, Sports World Capital

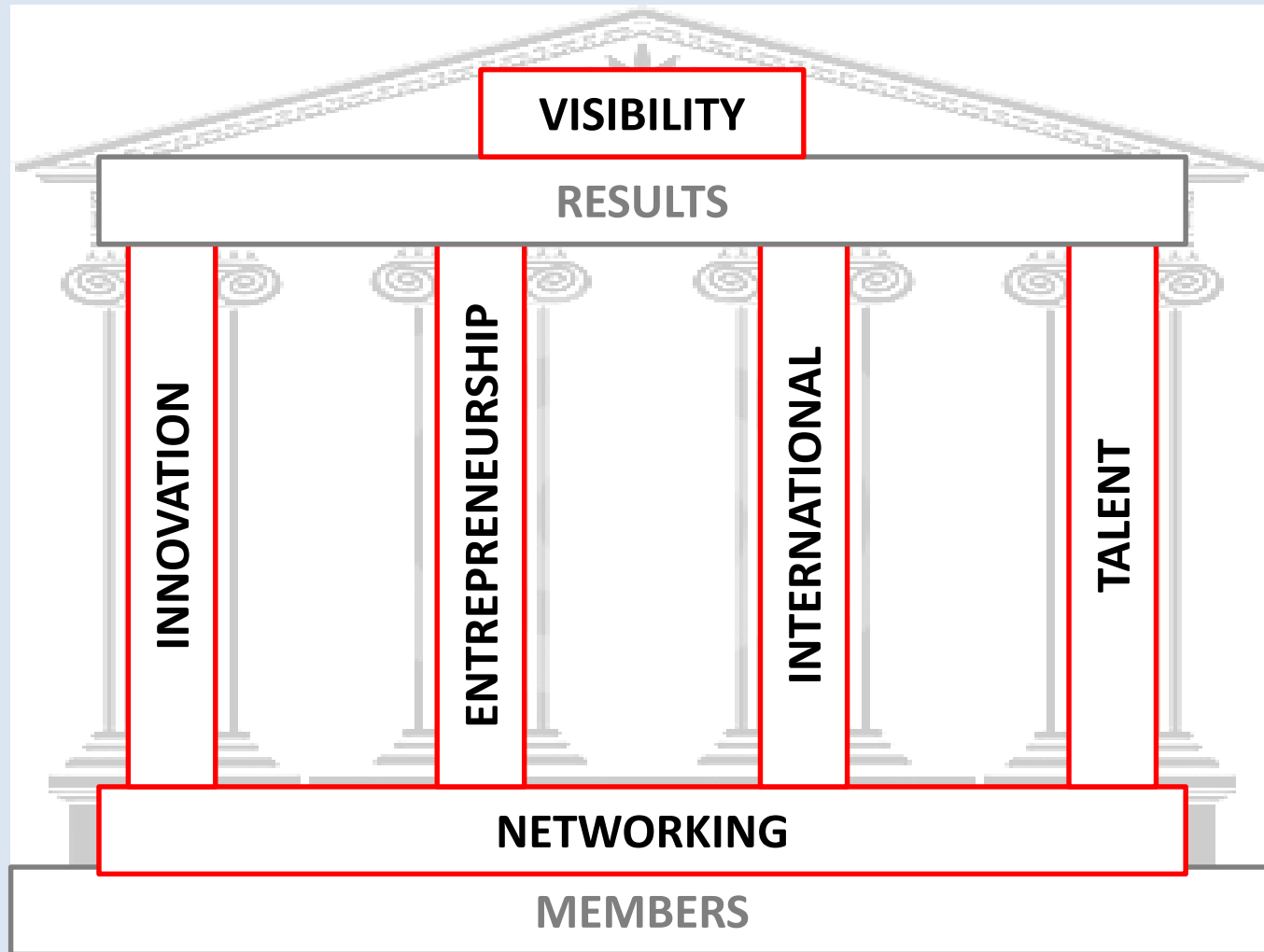


A mission:
Business Opportunities in sports



A services portfolio

A service portfolio



A service portfolio

INNOVATION

Identify opportunities and launch innovative projects

- Market studies
- Working groups
- Partners search
- Finance for projects

ENTREPRENEURSHIP

To contribute to the creation of new companies and attract capital and entrepreneurs

- Advice and support for entrepreneurs
- Connect entrepreneurs with industry (cluster members)
- Access to funding

VISIBILITY

Position sport as a Catalan strategic industry and Catalonia as a world reference

- Web, Twitter and Newsletter
- Appearances in press
- INDESCAT Business lunches
- Conferences
- Catalan Sports Industry Awards

TALENT

Contribute to improve talent and facilitate access for businesses and professionals

- IKL Program
- Participation in Masters in Sports Management
- Employment market-place
- Dissemination Conferences

INTERNATIONAL

To promote the internationalization of the industry

- Joint actions (fairs and missions)
- Individual services for companies
- International projects

NETWORKING

Encourage relationships between all industry members to generate business opportunities

- INDESCAT Activity
- Participation in industry forums (local and Int'l)

- Catalan Sports Industry – INDESCAT
- **Our experience in energy consumption and efficiency – EFISPORT**

We care about **Sports Industry Competitiveness**, and that's also about **efficiency** and **sustainability**

- ✓ Economically: less investment, less maintenance and suitability for the use
- ✓ Energy efficient: less energy and water
- ✓ Environmentally: less waste, fewer emissions and less impact planning

And all of them are closely linked to each other

EFISport. “Together we make the sport more sustainable”

What is EFISport today?

- ✓ A working group on efficient maintenance and management of sports facilities and a Marketplace to present products and services in this field.
- ✓ An excellent chance to promote the interaction between managers and owners of facilities, energy providers and / or systems that promote energy saving and efficiency in maintenance.
- ✓ A conference with more than 150 attendees per year (average).
- ✓ Case studies and success stories, as well as energy efficiency solutions, both in terms of maintenance and management.
- ✓ **This year had a special emphasis on the Step2Sport project results.**
- ✓ The conference is accompanied by a Marketplace of energy providers and energy saving and maintenance solutions for sports facilities.

EFISport. “Together we make the sport more sustainable”

2012 - The beginnings

- ✓ The working group promoted an Study on energy efficiency in sports facilities through audits in 5 different sports facilities, which draw conclusions and made recommendations for more efficient installations.
- ✓ The potential average savings estimated in these facilities were:
 - ✓ between 30% and 40% in water consumption
 - ✓ between 25% and 35% of the total cost in electricity
 - ✓ between 15% and 25% saving in natural gas annual invoice.
- ✓ These results allowed us to publish a Best Practices Guidelines and communication materials to sensitize managers and users.



EFISport. “Together we make the sport more sustainable”

2012 - The beginnings

✓ 1st EFISport conference:

- ✓ *INDESCAT Best Practices Guidelines* →
- ✓ ICAEN’s Guide: Energy in Sports Facilities
- ✓ Experiences in energy management in sports facilities

1. Contracting energy sources
2. Quality of electric supply
3. Lighting
4. Air conditioning
5. Engines
6. Water management
7. Awareness of users and workers
8. Energy Management System (direct management)
9. Energy Service Company (indirect management)



EFISport. “Together we make the sport more sustainable”

2013 – 2nd EFISport Conference

- ✓ Sport facilities experiences
- ✓ Energy-purchasing models



2014 – EFISport Training Program

- ✓ 24 hours (6 weekly sessions x 4 hours)
- ✓ 20 different speakers, 25 attendees
- ✓ Content: state of the art, challenges, regulation, solutions & technologies, etc.



The collage displays various documents related to the 2014 EFISport Training Program. Key elements include:

- Brochure: "El curs EFISport: Gestió de l'Energia en Instal·lacions Esportives"** (The EFISport course: Energy management in sports facilities). It lists the course objectives, target audience (professionals in sports facilities), and contact information for INDESCAT.
- Brochure: "INDESCAT"** with logos of partner organizations like the Catalan Government and the European Union.
- Programa (Program)** detailing the schedule of 6 sessions, each 4 hours long, covering topics such as energy audits, smart grids, and energy purchasing models.
- Participants (Participants)** list including names and affiliations of the 25 attendees.
- Logos of sponsors and partners** such as INDESCAT, INEFC, and various energy and technology companies.

EFISport. “Together we make the sport more sustainable”

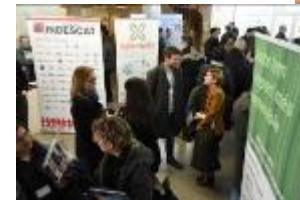
2015 – 3rd EFISport Conference & 1st Market Place

- ✓ Conference: Sport facilities experiences
- ✓ Marketplace: Sports facilities products and services providers
- ✓ +100 attendees, 10 exhibitors



2016 – 4th EFISport Conference & 2nd Market Place

- ✓ +200 attendees, 8 exhibitors

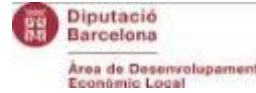


EFISport. “Together we make the sport more sustainable”

2017 – Final STEP-2-SPORT Regional Event & 5th EFISport Conference & 3rd Market Place

- ✓ Conference:
 - ✓ **Step2sport**: project, roadmap and tool.
 - ✓ Sport facilities experiences (specially focused on water/pools)
- ✓ Marketplace: Sports facilities products and services providers
- ✓ +130 attendees, 6 exhibitors





EFISport. “Together we make the sport more sustainable”

Main conclusions

- ✓ We have become ***a reference for the industry***, because EFISport is a knowledge hub about energy consumption in sport facilities:
 - ✓ For owners and managers to assess the different options at their fingertips for greater energy efficiency in sports facilities.
 - ✓ Because providers can present live their products and services to its primary target audience: managers and owners.

Sport facilities have achieved important savings, but there is still a long way to go...

Sport facilities have achieved important savings, but there is still a long way to go...

- ✓ Step2Sport concludes there is a high potential for energy saving in sports centers, especially in facilities with indoor pools:
 - ✓ 380 sports facilities with an indoor pool in Catalonia (January 2017. Source: Consell Català de l'Esport)

Sports facilities with indoor pool: 380	
Estimated average energy consumption	1.550 MWh/year
Potential energy savings (45%)	697,5 MWh/year
Potential energy savings in Catalonia	265.050 MWh/year

Saving potential over 18M€