



**International Collaboration Mechanisms  
in Horizon2020**

**&**

**The Case for Canada – EU**

**Coordinated Call in Aeronautics Research**

European Commission

Aeronautics Unit

DG Research & Innovation

# HOW to Cooperate ?



# FP7 Aeronautics Evolution

< 2007 2008 (2009) 2010 2011 2012 2013

... **OPENING** (incl. explicit encouragement) .....

..... **SUPPORT ACTIONS** (e.g. CANNAPE) .....

**TWINNING**.....

**COORDINATED CALLS** .....

- Co-participation = approx. 50/50
- Co-funding = each-side-pays-its-nationals
- Co-evaluation = peer review from both sides

*RECIPROCITY*

*... ASSOCIATE TO FP7 ?*



\* "Gov2Gov" e.g. EU-RU WG on Civil Aero Research; e.g. EU-US (FAA) MoC – Annex I ATM;

\* Third country dedicated National Contact Point on Aeronautics research

\* 3rd Countries evaluators: <http://ec.europa.eu/research/participants/portal/page/experts>

# HOW to Cooperate ?



# Intn'l Cooperation in H2020 (tbc)

- **General opening**
- "Excellent science" pillar
  - Marie Skłodowska-Curie **Fellowships** : strong international dimension
  - Development of **global research infrastructures** (Carnegie Group)
  - **European Research Council** open to researchers from all over the world  
- research to be carried out mostly in EU MS or Associated Countries
- **"Societal challenges"** and "Industrial leadership" pillars
  - Projects with **required or preferential 3<sup>rd</sup> country participation**
  - **Networking** between existing / upcoming projects
  - **Coordinated calls** ( incl. joint calls ).  
Others: EU/MS ERA-NET, Joint initiatives of Union and third countries, ...
- Cross-cutting actions (inclusive, innovative & secure society challenge)
  - Support for overall policy dialogue
  - Networking and twinning activities
  - Coordination of EU and **Member States** international policies
  - Strengthening European presence in international partner countries



# HOW to Cooperate ?



# Intn'l Cooperation in H2020 Transport

- General opening - as in FP7 - to third country participants & 3<sup>rd</sup> parties:  
Minimum: 3 independent entities from different EU/Assoc. countries.  
EU co-funding only to EU/Associated/Low-income\* countries' entities, unless essential to carry out the project.  
(\*Low-income both in terms of absolute and relative GDP).
- Collaborative Projects with required 3<sup>rd</sup> country participation:  
Participation of third country entities is explicitly required  
– i.e. it is an **eligibility criterion**.
- Collaborative Projects with preferential 3<sup>rd</sup> country participation:  
Appropriate participation of third country **explicitly & positively evaluated** (under criterion "implementation").

# HOW to Cooperate ?



# Intn'l Cooperation in H2020 Transport

- Networking between research projects

Funding from both EU & the international partner(s) for a Coordination and Support Action in order to promote:

- sharing **data** / setting **common data infrastructure & standards**,
- **exchange of scientists**,
- **workshops**,
- **coordination** of specific activities,
- **alignment** of future research

(\* Funding for the research projects is not part of this instrument.)

Support may be provided to:

- Ex-post networking of **on-going** projects, or
- Ex-ante networking of **projects that are still to be selected**:

**Calls have to be aligned** and should include **incentives** to coordinate between projects selected on both sides, including by **identifying the partner countries** with which coordination and networking is encouraged.



- **What is?**
  - **Why ?**
  - **How Much?**
  - **Who ?**
  - **When ?**
  - **How ?**
  - **Examples**
  
  - **Questions?**
- Concept
  - Advantages
  - Budget, preparation
  - Roles
  - Indicative timeline
  - Modalities, Evaluation





## Concept

A coordinated call aims at generating

- **joint or tightly coordinated projects**
- with a **balanced** partnership
- in topics of **mutual benefit.**





## Advantages

- **Higher success rate** – more co-funding certainty on both sides (competition only among proposals to CA-EU call, whereas harsher competition in the normal calls)
- **Co-definition** of topics – not just one side
- **Co-evaluation** of proposals – not just one side
- **Co-participation** balanced – no minority side
- **Co-leverage** resources – do more with less





## Budget

- **The minimum agreeable** by both sides to fund at least 3 joint/coordinated projects at the first call.
- \*\*\* e.g. 4.5M€ EU + similar matching CA funding

## Administration

- As an equivalent call on each side, plus approx. 10% coordination efforts (correspondence + meeting) for the first coordinated call.



## Roles

- **Organisers** – one contact point on each side
  - **European Commission / Research & Innov.**
  - **Canadian Gov / Department ...**
  
- **Potential Participants** – any stakeholder e.g.
  - EU: R&T Centres, Universities, Industries, ...
  - CA: NRC, Universities, Industries, ...
  
- **Facilitators** (e.g. preparatory meetings/WS):
  - CANNAPE/ERA-Can, NCPs, Aero-events, ...



- Both EU & CA **calls invite** projects that require cooperation with entities from the other side.
- The **call descriptions** can be identical on both sides or cover complementary fields / same objectives.
- Same project is, preferably, submitted on both sides.
- Each side funds and signs a **contract only with its own participants**.
- No contractual links between the two funding parties.
- All the participants sign a **coordination agreement** among themselves (not **with** the funding parties).



## Indicative Timeline

	EU	CA
• Topics/budget agreed	t0 – 6 months	?
• Call Publication:	t0	?
• Submission closure:	t0 + 4 months	?
• Evaluation	t0 + 6 months	?
• Project(s) signature:	t0 + 10 months	?

### Conclusions:

- Check overlapping time in submission periods
- Check time between EC / CA project signatures
- For Horizon2020, t0 can be Jan 2014

# Coordinated Call

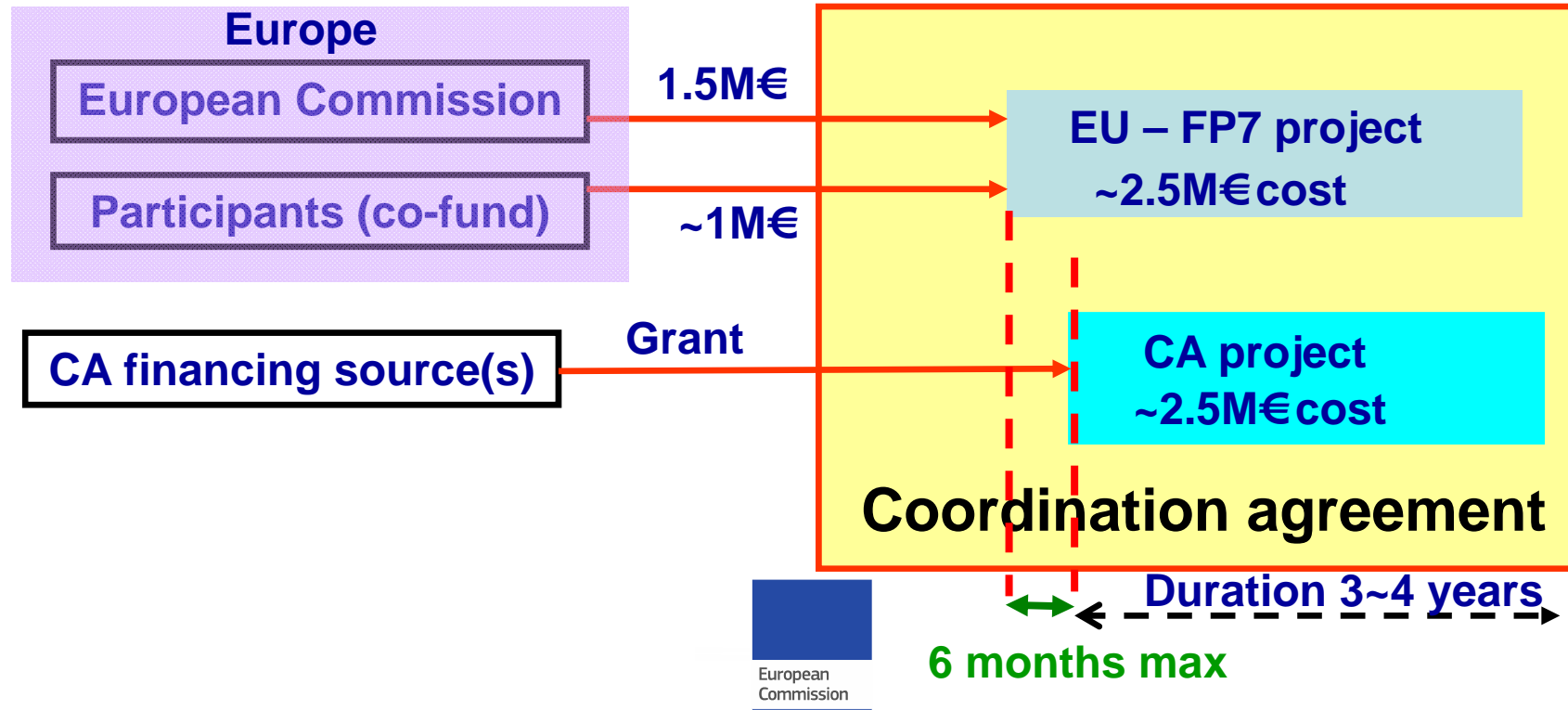


# How?

Example of what could be done per topic with projects retained

2 complementary projects (EU & CA)

Around 5M€ project costs





- EU-Russia ( 4 M€ each side funding )

5 topics open, 3 proposals retained (now running successfully).



- Novel composite geodesic structures
- High aspect ratio and High-lift aerodynamics
- Maintenance and safety
- Plasma actuators for engine noise control
- Propulsion advanced simulation

- EU-China ( 3 M€ each side funding )

3 topics open, 2 proposals retained (now running)



- Aircraft noise reduction methods
- Casting of large Titanium components
- Flow control drag reduction & aeroelastics.



- EU-Japan ( 4 M€ each side funding )

4 topics open, 3 proposals retained (now under negotiation).

- Aircraft Anti-icing systems

- High-speed aircraft

- Surface heat-exchangers for aero-engines

- Aeronautical communications



- EU-Russia ( 4.5 M€ each side funding)

5 topics open – published in July 2012, evaluated in Dec / April

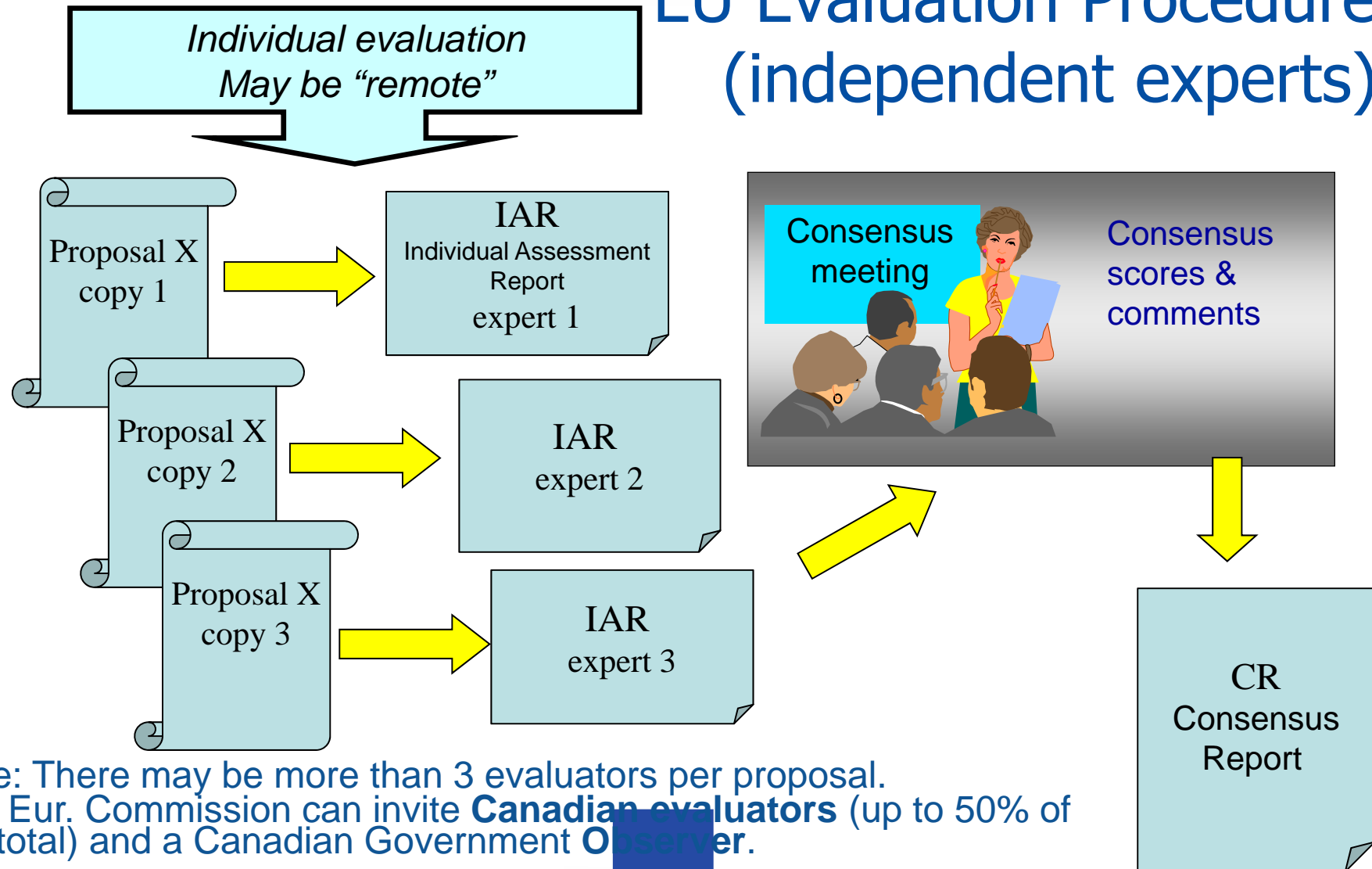


# Coordinated Call



# How?

## EU Evaluation Procedure (independent experts)



Note: There may be more than 3 evaluators per proposal. The Eur. Commission can invite **Canadian evaluators** (up to 50% of the total) and a Canadian Government **Observer**.





## Evaluation

- EU Criteria:
  - Excellence
  - Impact
  - Quality and efficiency of the implementation
- The Coordinated Call is named "**Joint Call**" if, in line with these evaluation criteria,
  - **joint evaluation & selection procedures** are agreed with the third country,
  - and the evaluation team contain a **balanced group of independent experts from both.**

# Questions ?



Collaborative R&T

+

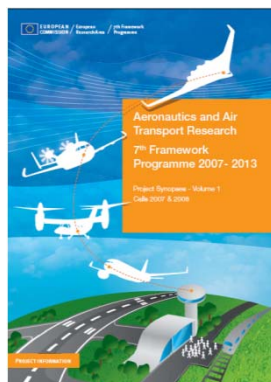
International Cooperation

=

Better Planes for a Better Planet



<http://ec.europa.eu/research/Horizon2020>



→ Visit our web:

[http://www.ec.europa.eu/research/aeronautics/index\\_en.html](http://www.ec.europa.eu/research/aeronautics/index_en.html)

*Thanks & Good Cooperation !*

*Merci et Bonne Coopération !*