



CFARS: Consortium for Advancement of Remote Sensing



CFARS – Where do we go from here?

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CFARS



The journey, Not the destination matters...

T. S. Eliot

quote fancy

NEED TO IMPROVE OUR CURRENT PERFORMANCE

CFARS

Who

- **2016-17 early members:**

Major North American wind project owners, developers, operator, 3rd party consultants and tech providers

- **Industry RS facilitator:**

Working group enabling collaboration on projects promoting the advancement and standardization of Remote Sensing use.

- **Private industry players:**

Private players supporting the different groups working on remote sensing use acceptance and standardization.

Why

- **Create consensus:**

Seek industry consensus around the use of RS. Speak with a common voice.

- **Build bridges:**

Build bridges between industry players, research centers, standardization body and tasks. Support IEC 61400-15 working group.

- **Rapidly address private industry RS needs :**

Steer short term projects aimed at supporting private industry needs

How

- **Access to information**

Give access to a large pool of industry RS data from private sector.

- **Support RS validation projects**

Join members' resources to support short term practical projects validating use of RS

- **Jointly present results**

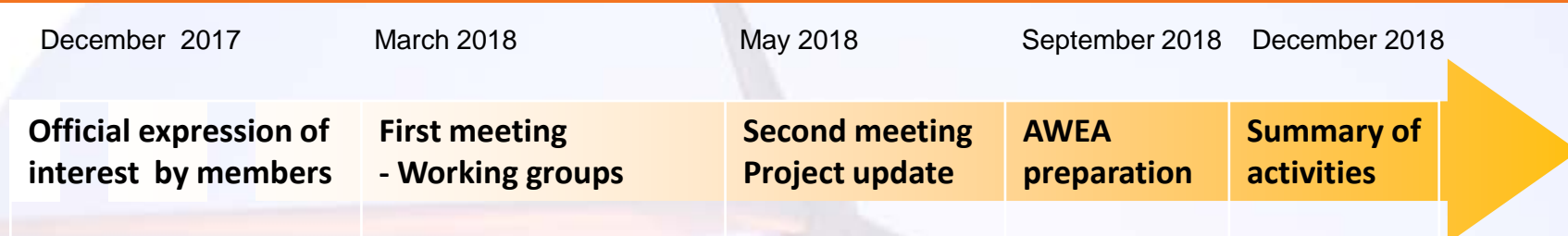
Present compelling results to banks, the broad industry and other stakeholders

CFARS : Initial Roadmap



• Projects proposal	• Project outcome
<ul style="list-style-type: none"> • Remote sensing – performance validation 	<ul style="list-style-type: none"> • Evaluation of performance indicators for the main remote sensing technologies commercially available • Demonstration of their respective ability to reduce project uncertainty • Demonstration of level of consistency across the various technologies (LiDAR, SoDAR) • Evaluation of their performance in various climatic conditions
<ul style="list-style-type: none"> • Filling the gap to achieve bankability of standalone remote sensing in non-complex or semi-complex flow 	<ul style="list-style-type: none"> • Develop the largest industry dataset of RS collocation with IEC compliant masts in non-complex terrain • Evaluate average performance parameters for the entire dataset (SoDAR and LiDAR) in comparison to IEC compliance mast
<ul style="list-style-type: none"> • Provide support to the working groups thriving for standardization of the use of remote sensing 	<ul style="list-style-type: none"> • Actively reach out to IEA and IEC to understand how to support their effort • Providing data, human and financial resource

CFARS : Next Steps



• Proposed milestone	• Description
<ul style="list-style-type: none"> • Official expression of interest by members 	<ul style="list-style-type: none"> • Seek formal expression of interest by members • Get commitment from members to act in `good faith` to make the consortium a success • Get commitment to take part in the consortium meeting (phone or in person) and at least one working group
<ul style="list-style-type: none"> • First official consortium meeting 	<ul style="list-style-type: none"> • Presentation of the official members • Presentation of the proposed projects • Creation of the working groups and assignment of group leads • Reach out to IEA – IEC
<ul style="list-style-type: none"> • Second consortium meeting 	<ul style="list-style-type: none"> • Presentation of advancement of projects by the working groups • Preparation for broader diffusion of outcome (AWEA, etc)
<ul style="list-style-type: none"> • AWEA preparation 	<ul style="list-style-type: none"> • Support AWEA in preparation of a panel on remote sensing • Discuss how to present consortium to a broader audience • Select project outcome to present to AWEA.

CFARS : Outline of the presentations

Day 1: Morning Session: 10am-1pm

- ❖ 10.00 – 10.10 “Why are we here?” (Philippe Pontbriand RES)
- ❖ 10.10 – 10.30 “What are the issues?” (Taylor Geer, DNV-GL)
- ❖ 10:50 – 11.10 “How to address uncertainty” (Taylor Geer, DNV-GL)
- ❖ 10.30 – 10.50 “How to shed the light some of the issues” (Barry Logue, NRG Systems)

- ❖ 11.10 – 11.30 Break

- ❖ 11.30 – 11:40 “Route to standardization --- IEC-61400-15” (Jason Field, NREL)
- ❖ 11.40 – 12.00 “Complex Flow or Complex Terrain” (Rolando Tejeda, RES)
- ❖ 12.00 – 12.20 “How to support other RS initiatives --- IEA ” (Peter Clive, Wood)

CFARS : Afternoon Sessions

- ❖ Afternoon discussion session: 13:30 – 16:00 (Moderated by Philippe Pontbriand)
- ❖ Expectation from the consortium members
- ❖ Governance of CFARS – 30 minutes
- ❖ Defining the challenges to be addressed first:
- ❖ Defining high level road map to solution (Short, Medium Long Term)
- ❖ Defining working groups

CFARS : Social

- ❖ Happy hour: Boulder Beer on Walnut
- ❖ Reservation at The Med - 7pm

Contact Information

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