



# C-ROADS PLATFORM

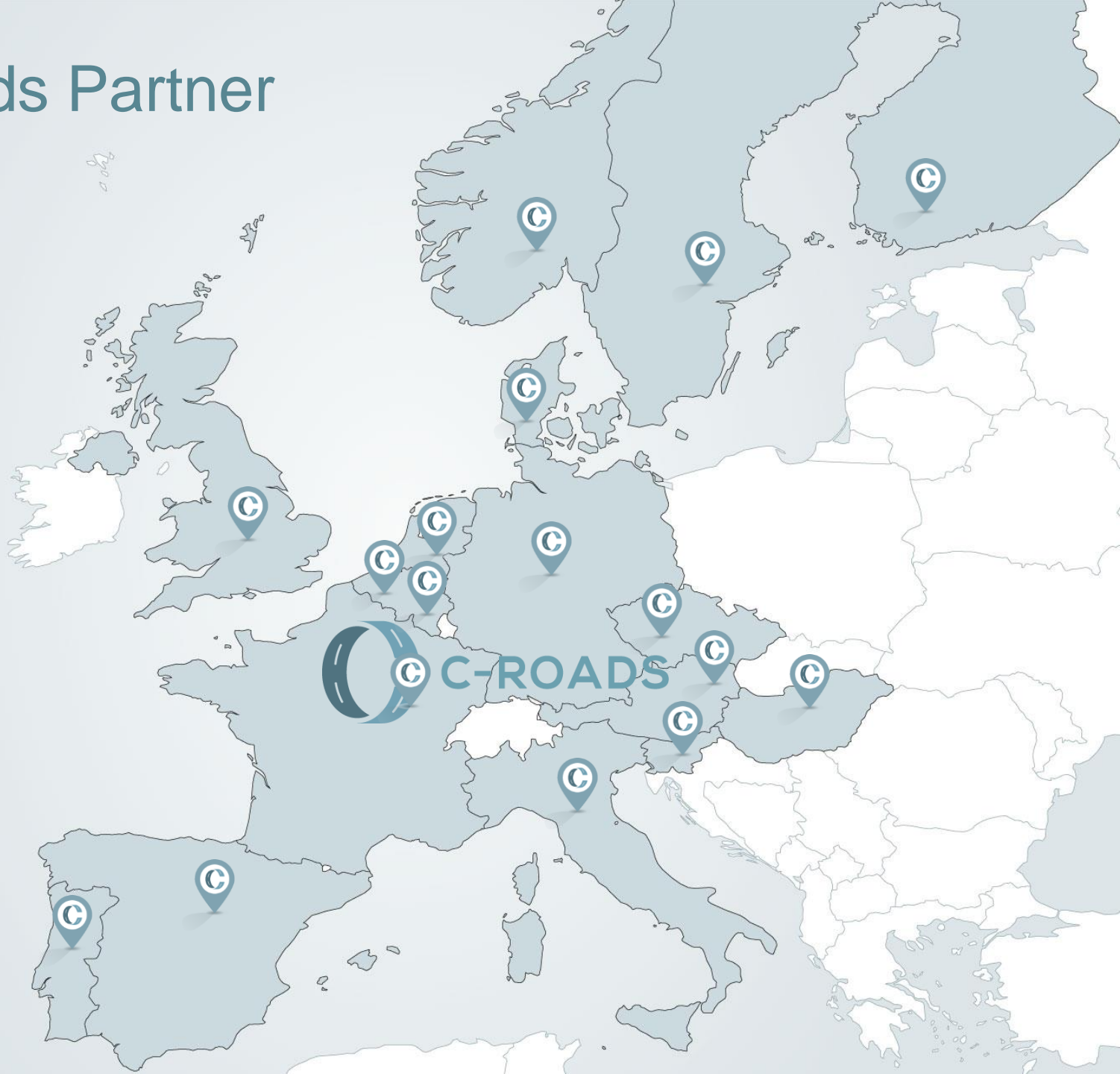
Onno Tool

15-11-2017 Architectuur en Interoperabiliteit bijeenkomst

# The aim of the C-Roads Platform

- Ⓒ linking all C-ITS deployments
  - Ⓒ develop, share and publish common technical specifications (including the common communication profiles),
  - Ⓒ planning intensive cross-testing to verify interoperability
  - Ⓒ develop system tests based on the common communication profiles by focusing on hybrid communication mix, which is a combination of ETSI ITS-G5 and operational cellular networks.
- ➔ And by doing so C-Roads will pave the ground for making Cooperative, Connected and Automated Driving reality

# C-Roads Partner



# C-Roads members

## Core Members 2016

- Ⓒ Austria
- Ⓒ Belgium/Flanders
- Ⓒ Czech Republic
- Ⓒ France
- Ⓒ Germany
- Ⓒ Slovenia
- Ⓒ The Netherlands
- Ⓒ UK

## Core Members 2017

- Ⓒ Belgium/Wallonia
- Ⓒ Denmark
- Ⓒ Finland
- Ⓒ Hungary
- Ⓒ Italy
- Ⓒ Norway
- Ⓒ Portugal
- Ⓒ Spain
- Ⓒ Sweden

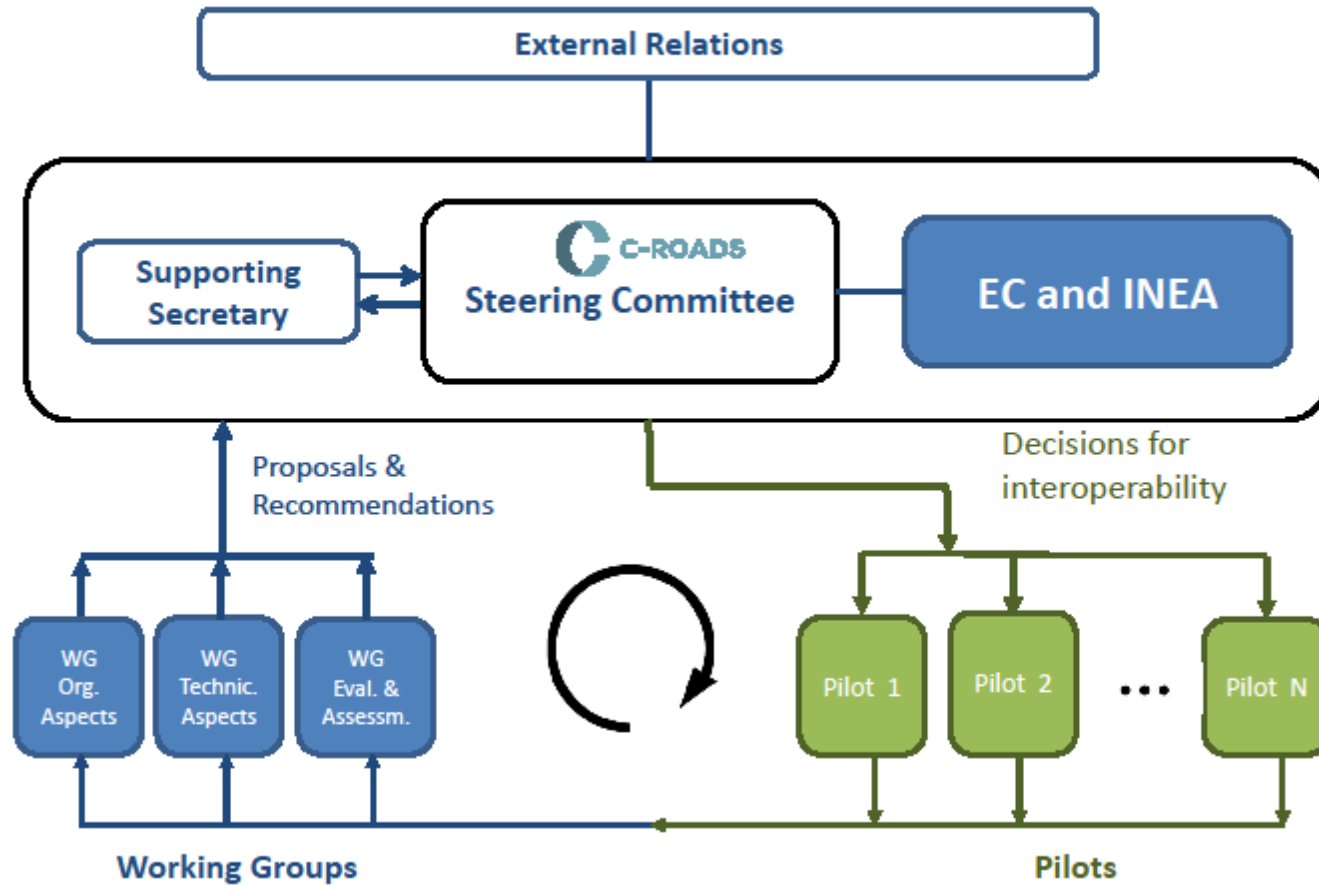
## Associated Members

- Ⓒ Ireland
- Ⓒ Switzerland
  
- Ⓒ Australia
- Ⓒ New Zealand

# Day 1 Services



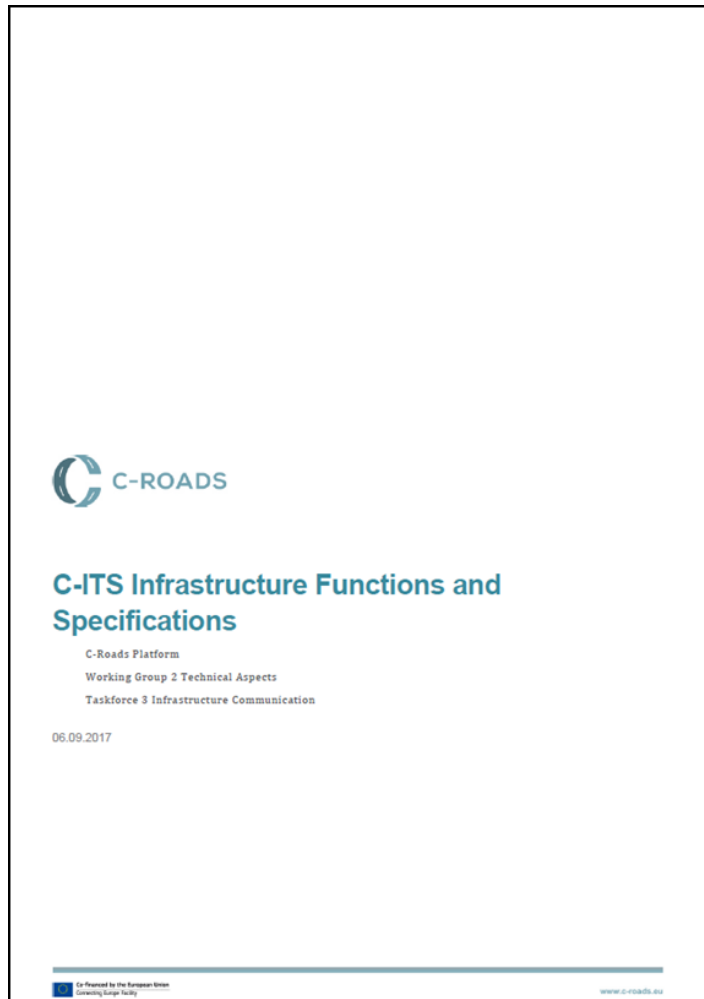
# Governance Structure



# Working Groups

- **WG1 – Organisational Aspects:**
  - Leader: pending
  - Co-Leader: Eric Kenis (BE – MOW)
  - NL: Fred Verweij (RWS/I&W)
  
- **WG2 – Technical Aspects:**
  - L: Marie-Christine Esposito (FR – DGITM)
  - NL: Paul Spaanderman (obo RWS/I&W)
  
  - **TF1 – Security Aspects:**
    - L: Sandro Berndt (DE – BAST)
    - C: Sylvain David (FR – CEA)
    - NL: Gilles Ampt (obo RWS/I&W)
  
  - **TF2 – Service Harmonisation:**
    - L: Onno Tool (NL – RWS/I&W)
  
  - **TF3 – Infrastructure Communication:**
    - L: Marko Jandrisits (AT – ASFINAG)
    - C: Božidar Volk (SI – DARS)
    - NL: Paul Spaanderman (obo RWS/I&W)
  
- **WG3 – Evaluation and Assessment:**
  - L: Luca Studer (IT – Polytecnico Milano)
  - C: Gary Crockford (UK – DfT)
  - NL: Henkjan Kwakernaat (NL – RWS/I&W)

# Publication of the Communication Profile for ITS-G5





- Published on 14th of September
- Covering
  - RWW – Road Works Warning
  - IVS – In Vehicle Signage
  - OHLN – Other Hazardous Location Notifications
  - GLOSA – Green Light Optimal Speed Advisory
- Available via [www.c-roads.eu](http://www.c-roads.eu)



# Close cooperation with C2C CC



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**Administration of the Memorandum of Understanding**

5. This MoU shall last until the end 2020. It may be renewed upon mutual written consent of both parties when new Rules of Procedure are adopted in either party, or when particular procedures are adopted at world-wide level. It may also be amended upon mutual written consent of both parties in the light of experience and technical developments.

Notwithstanding the foregoing, this MoU may be terminated by either party upon 90 days' written notice to the other. Upon any termination or expiration of this MoU, all the rights granted pursuant to this MoU shall cease immediately and the parties shall cease from distributing any information received pursuant to this MoU. Notwithstanding anything in this MoU or otherwise to the contrary, the provisions of this MoU related to ownership of rights shall survive any termination or expiration of this MoU.

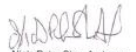
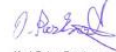


Any difficulties arising shall be agreed wherever possible at the working level between the relevant Group Chairmen. Matters which cannot be resolved at working level shall be subject to discussion between the two organisations at the level of the General Manager of the **CAR 2 CAR Communication Consortium** and the **C-Roads Platform** chairperson of the Steering Committee.

The MoU shall not be deemed or construed to be modified, amended or waived, in whole or in part, except by written agreement of both parties. Neither party may assign this MoU or any of its rights, obligations or duties hereunder, without the prior written consent of the other party.

The relationship between the **CAR 2 CAR Communication Consortium** and the **C-Roads Platform** shall be that of independent signatories, and nothing in this MoU shall be construed to constitute either party as an employee, agent or member of the other party. Without limiting the foregoing, neither party shall have authority to act for or to bind the other party in any way, to make representations or warranties or to execute agreements on behalf of the other party, or to represent that it is in any way responsible for the acts or omissions of the other party.

6. The practical contacts and decisions for the application of this MoU will be taken by the General Manager of the **CAR 2 CAR Communication Consortium** and the Chairperson of the **C-Roads Platform** Steering Committee.

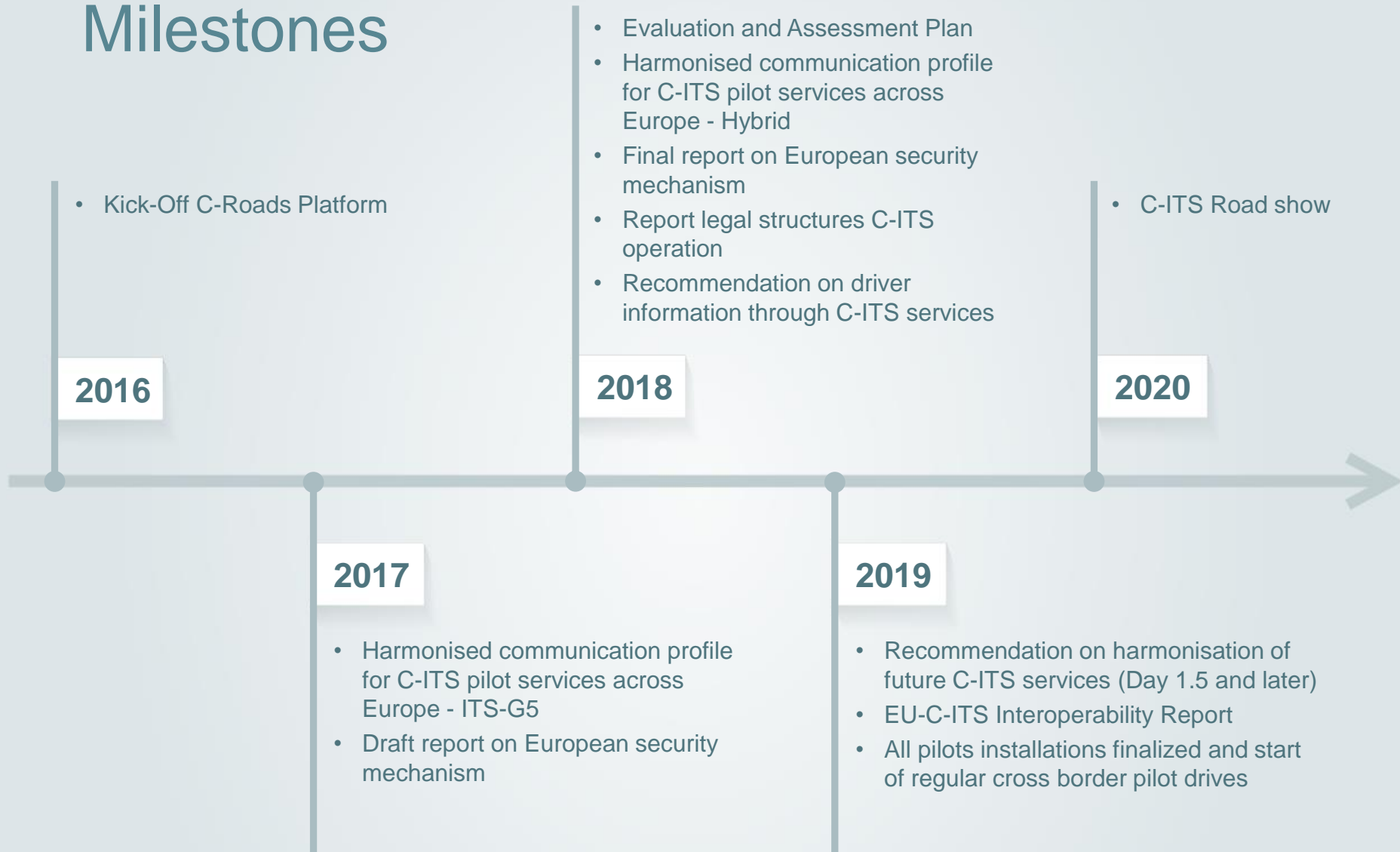
Dated: 20/07/17

 Niels Peter Skov Andersen General Manager CAR 2 CAR Communication Consortium	 Karl-Oskar Proskawetz Administrator	 Eric Olinger Chairperson Signed on behalf of the C-Roads Platform	 Martin Böhm General Secretary
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MoU between C2C-CC and C-Roads Platform
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June 2017

# Milestones



- Ⓒ Release Management Process in ontwikkeling
- Ⓒ Release 1.0 beschikbaar via de site van C-Roads ([www.c-roads.eu](http://www.c-roads.eu)) (nog niet geharmoniseerd)
- Ⓒ Release 1.1 gepland voor begin 2018 (geharmoniseerd wat mogelijk is tot dan)
- Ⓒ Hoe organiseren we link tussen C-Roads / Projecten / NL Community A&I (2 richting verkeer)?



**THANK YOU!**

