



WP8 task 8.6

# READY Advanced Training Programme on smart cities development

Outline of concept, content and responsibility



Johanna Wallin, Paris 2017-05-05

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# To do today

- Presentation concept (20 min)
- Discussion/questions (10 min)
- Workshop on modules and submodules (45 min)
- Decision on responsibility for development (5 min)
- Creation of work group (10 min)



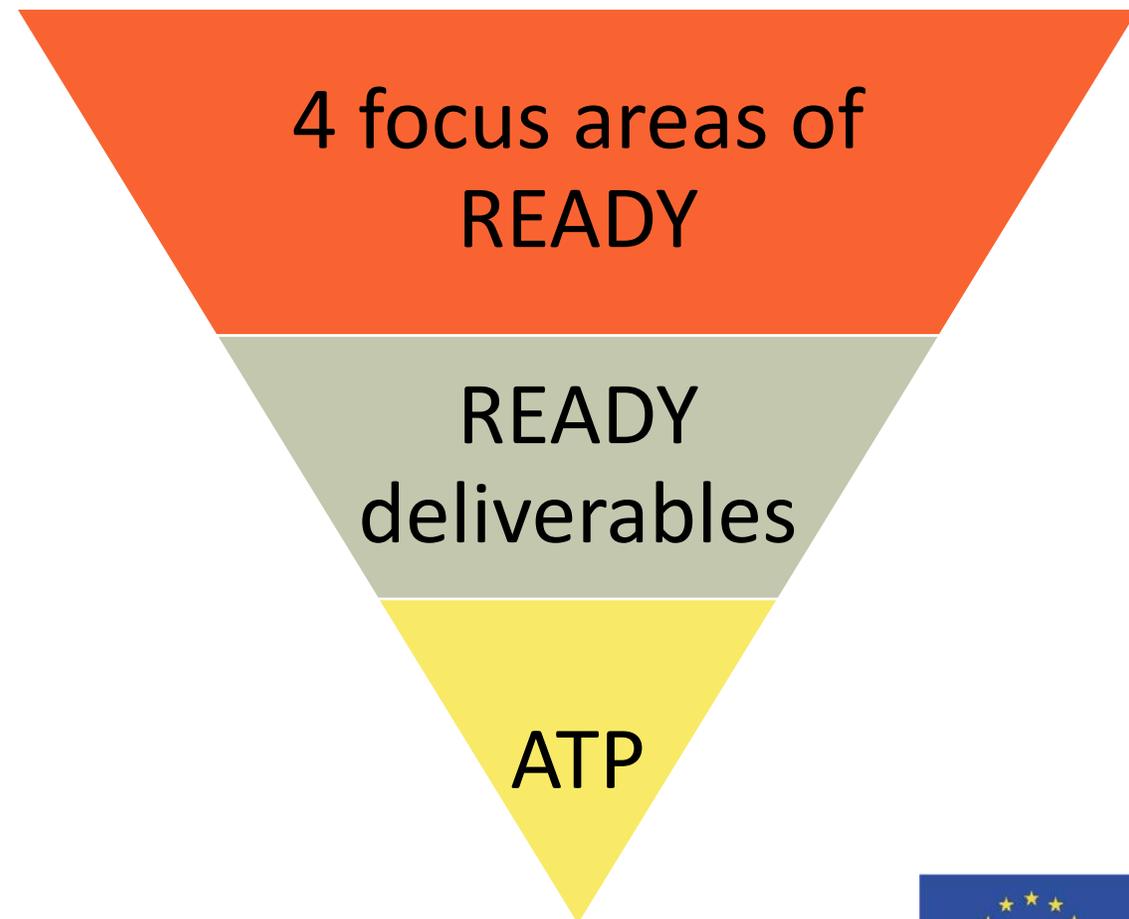
# ESS task leader – all partners involved

## Purpose

To relay the findings from READY to relevant target groups

## Objective

Increase the number of advanced smart city solutions for resource efficient measures



# Concept Advanced Training Programme

## Four parts:

1. READY general introduction
2. Modules  
Mirroring the 4 areas of content
3. Interactive participant involvement
4. Study visits

### Expandable

- 2 hour training
- 1 or 2 day training
- 1 week training

### Adaptable

- General target group
- Specialist target group

# Modules and submodules - draft

Introduction to  
**Green governance**

Policy/SEAPs

Business models

Summary of  
Green governance

Intro to **Sustainable  
retrofitting of buildings**

User behaviours

Building parts

Heating and cooling

Ventilation

Local energy production

Summary of Sustainable  
retrofitting of buildings

Introduction to  
**Distric heating/cooling**

Techniques

Operational optimization

Summary of  
Distric heating/cooling

Introduction to **Mobility  
Management and EV**

Electric carools

Public transports

Parking/charge stations

Summary of Mobility  
Management and EV

Introduction to READY ATP  
Project scope and purpose

Summary of  
READY ATP and findings

# Expandable modules

One module = 2 hours;  
One submodule = 20 minutes  
Intro+summary = 15 min

- Develop module introduction and summary for **all target groups**
- Develop submodules for **specific target group**

Introduction to sustainable retrofitting of buildings

User behaviours

Building parts

Heating and cooling

Ventilation

Local energy production

Summary of sustainable retrofitting of buildings

**Develop additional parts for expanding the module:**

- Study visits
- Workshop themes
- Participant interaction exercises
  - working on own examples,
  - quizzes,
  - polls

Module

Submodule

# Adaptable modules

These submodules should always be presented to all target groups

Introduction to READY ATP  
Project scope and purpose

Introduction to  
Green governance

Summary of  
Green governance

Introduction to Sustainable  
retrofitting of buildings

Summary of Sustainable  
retrofitting of buildings

Introduction to  
Distric heating/cooling

Summary of  
Distric heating/cooling

Introduction to Mobility  
Management and EV

Summary of Mobility  
Management and EV

Summary of  
READY ATP and findings

# Target group adaption of modules

## Example of target group policy makers/politicians

Introduction to READY ATP  
Project scope and purpose

Introduction to  
Green governance

Policy/SEAPs

Business models

Summary of  
Green governance

Introduction to Sustainable  
retrofitting of buildings

Summary of Sustainable  
retrofitting of buildings

Introduction to  
Distric heating/cooling

Summary of  
Distric heating/cooling

Introduction to Mobility  
Management and EV

Public transports

Parking/charge stations

Summary of Mobility  
Management and EV

Summary of  
READY ATP and findings

# Execution set-up for training performed within the project

**2** **Two-day international/national ATP in Växjö resp Aarhus** (eg. May (english) and Nov (swe/dan) 2019), with some contribution from Aarhus in Sweden and vice versa

**1** **One day regional/local ATP in Växjö resp. Aarhus**  
(eg. Nov (swe/dan) 2018)



# General set up -1 day training

9:30	Introduction to READY ATP	'15	13:00	Lunch	1'00
9:45	Introduction to Green governance	'10	14:00	Introduction to Distric heating/cooling	'10
9:55	Policy/SEAPs	'20	14:10	Techniques	'20
10:15	Business models	'20	14:30	Operational optimization	'20
10:35	Summary of Green governance	'05	14:50	Summary of Distric heating/cooling	'05
10:40	Coffee break	'25	15:00	Intro Mobility Management and EV	'10
11:05	Intro to Sust. retrofitting of buildings	'10	15:10	Electric carpools	'20
11:15	User behaviours	'20	15:30	Public transports	'20
11:35	Building parts	'20	15:50	Coffee break	'20
11:55	Heating and cooling	'20	16:10	Parking/charge stations	'20
12:15	Ventilation	'20	16:30	Summary Mobility Management and EV	'05
12:35	Local energy production	'20	16:35	Summary of READY ATP and findings	'15
12:55	Summary Sust. retrofitting of buildings	'05	16:50	End of days	

# General set up - 2 day training

## Day 1

Introduction to READY ATP

Green governance

Workshop

Lunch

Sust. retrofitting of buildings

## Day 2

Study visit

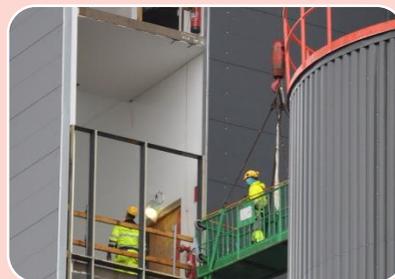
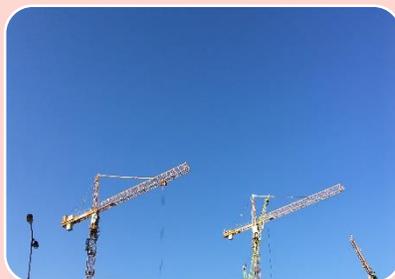
Lunch

District heating/cooling

Mobility Management and EV

Summary of READY ATP and findings

# General set up – 1 week training



## Day 1

- General introduction
- Green Governance
- Workshop

## Day 2

- Sustainable retrofitting
- Workshop
- Study visit

## Day 3

- Sustainable retrofitting
- Workshop
- Study visit

## Day 4

- District heating/cooling
- Workshop
- Study visit

## Day 5

- Mobility management
- Workshop
- Study visit
- General summary

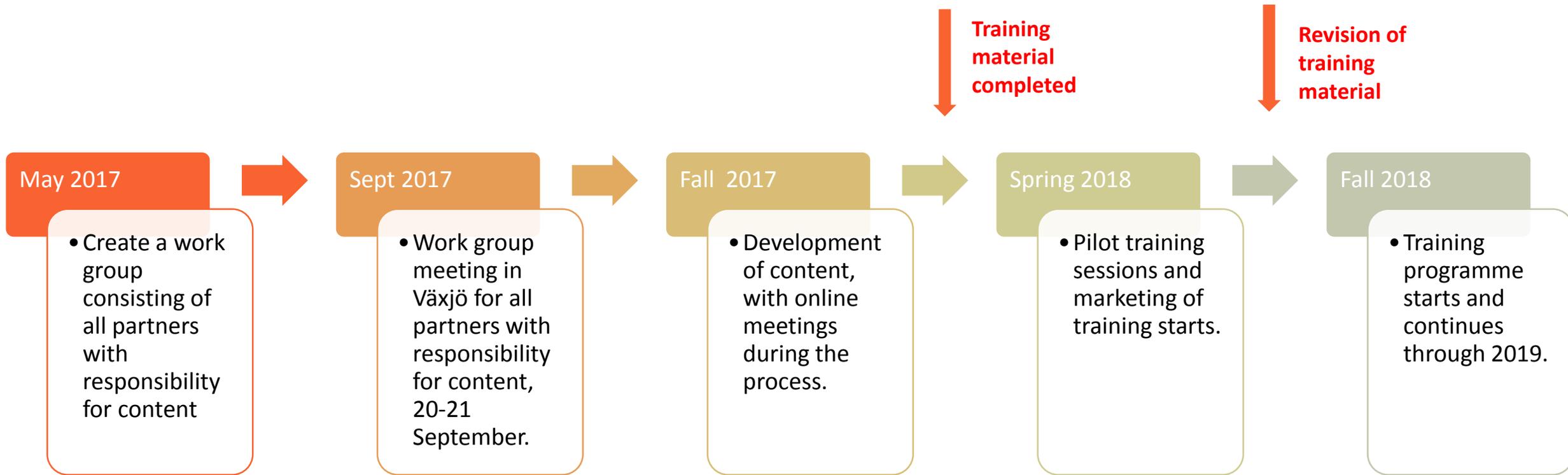
# Proposed responsibility for developing content in modules and submodules

Responsible for the overview of content, making sure we include all relevant parts/results in the module

- **General introduction – COWI**
- **Green governance – Växjö**
- **Sustainable retrofitting of buildings – ESS**
- **District heating/cooling – Dansk Fjernvarme**
- **Mobility Management & electric vehicles – E.ON**

Modules & Sub-modules	Responsible partner
<b>General introduction</b>	COWI
<b>Introduction to module Green governance</b>	Växjö
Policy/SEAPs	Växjö/Aarhus
Business models	LGI
<b>Summary of module Green governance</b>	Växjö
<b>Introduction to module Sustainable retrofitting of buildings</b>	ESS
User behaviours	Wexnet (LNU)
Building parts	Växjöbostäder/Ringgården
Heating and cooling	Växjöbostäder/Ringgården
Ventilation	Växjöbostäder/Ringgården
Local energy production	LiBaI, Racell
<b>Summary of module Sustainable retrofitting of buildings</b>	ESS
<b>Introduction to module District heating/cooling</b>	Dansk Fjernverme
PhD/ Techniques/Operational optimization	Dansk Fjernverme
<b>Summary of module District heating/cooling</b>	Dansk Fjernverme
<b>Introduction to module Mobility Management &amp; electric vehicles</b>	EON
Electric carpools	EON
Public transports	EON
Parking and charge stations	EON/Växjö
<b>Summary of module Mobility Management &amp; electric vehicles</b>	EON
<b>General conclusion</b>	COWI

# Time plan

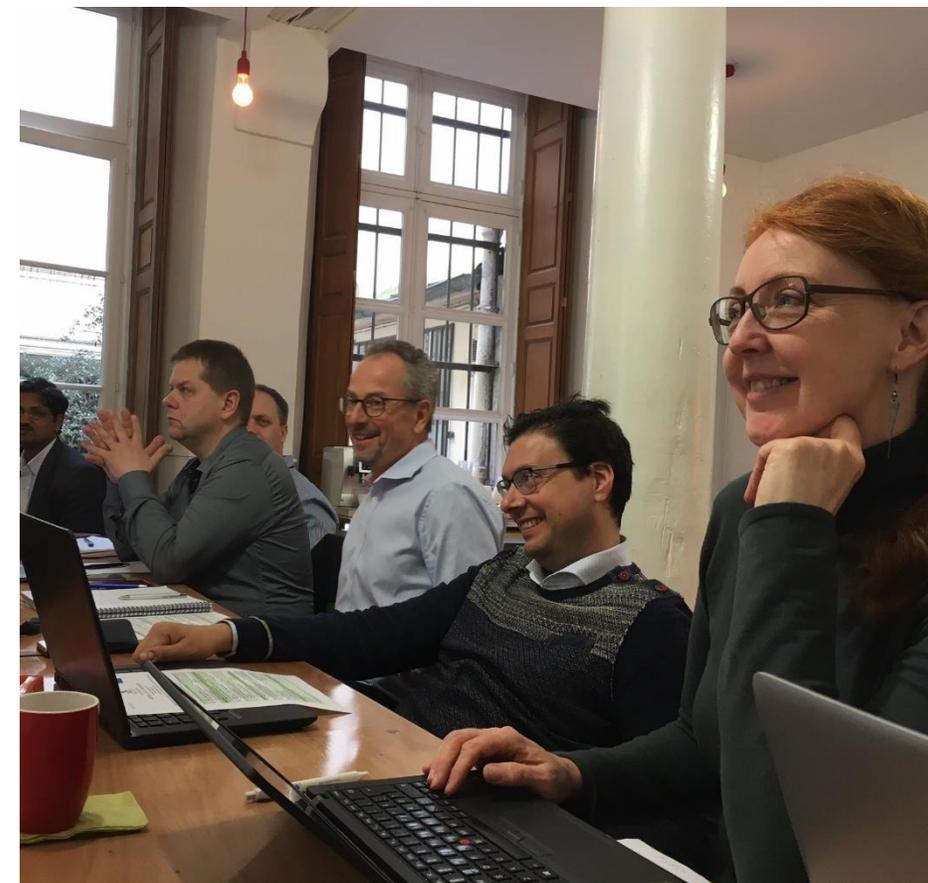


Questions?



# Workshop – divide into four groups

1. Modules  
10 min
  - a) Ok or do we need to add/delete some?
2. Submodules (in your module)  
15 min
  - a) Are the suggested ok, do we need to add any.
3. Report to the group/discussion  
20 min



# Decision on responsibility for developing content in modules and submodules

Responsible for the overview of content, making sure we include all relevant parts/results in the module

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- **Green governance – Växjö**
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<b>Introduction to module Mobility Management &amp; electric vehicles</b>	EON
Electric carpools	EON
Public transports	EON
Parking and charge stations	EON/Växjö
<b>Summary of module Mobility Management &amp; electric vehicles</b>	EON
<b>General conclusion</b>	COWI

# Creation of workgroup

- All partners are to contribute
- Actual WG consists of ESS, COWI Aarhus kommune, Växjö kommun, Wexnet, VEAB, Dansk Fjernvarme, Eon, LGI, Växjöbostäder, Ringgården, Aarhus Universitet, LitBal, Racell, and representatives from Kaunas.
- Next is the workshop in Växjö 20-21 sept to plan the content of the modules.





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# Thank you



Johanna Wallin, Paris 2017-05-08



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