OPEN INNOVATION WITHIN THE EU FRAMEWORK: INNOVATION ACTION AEROSOLFD

AeroSolfd
filtration devices

Martin J. Lehmann

MANN+HUMMEL GmbH

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INTRODUCTION

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WHAT IS AEROSOLFD?

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Fast track

to cleaner, healthier urban **Aerosols**

by
market ready **Solutions**

for

- tailpipe,
- brake systems
- and (semi-)closed environments

of retrofit

Filtration Devices

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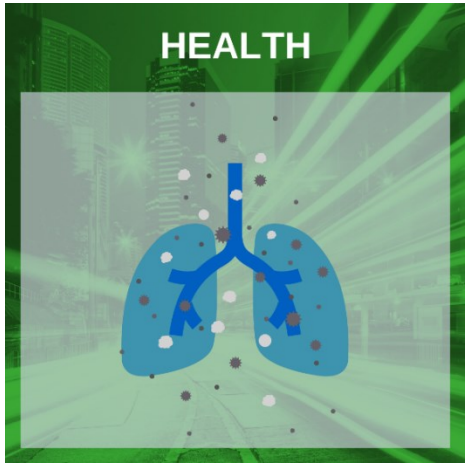
WHY

- Traffic is a significant contributor to air pollution
- Harmful effects of traffic-related ultrafine particles on:



- Aim/Proposal: **reducing** traffic-related emissions

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OPPORTUNITY (SUMMER 2021):
HORIZON EUROPE INNOVATION ACTION

HORIZON-CL5-2021-D5-01-15
Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions

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IDEA: BRAKE DUST PARTICLE FILTER

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Solution for passenger cars already at TRL6

Bus and commercial vehicles with similar brake systems

→Transfer of existing concept

Train/metro brake system different

→Other solution preferred

→Retrofit of Stationary Filters @stations

Transfer of well-tested solution of Brake Dust Particle Filter from passenger car to bus/commercial vehicles

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IDEA: TRAIN/METRO - AIR FILTER

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- Transfer of Filtration Solutions – Indoor Air Purifiers for Metro Stations

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OBJECTIVE: CLEANER URBAN AIR

- AeroSolfd Retrofit Solutions:

Reducing tailpipe emissions

Reducing brake emissions

Reducing pollution in (semi-)closed environments

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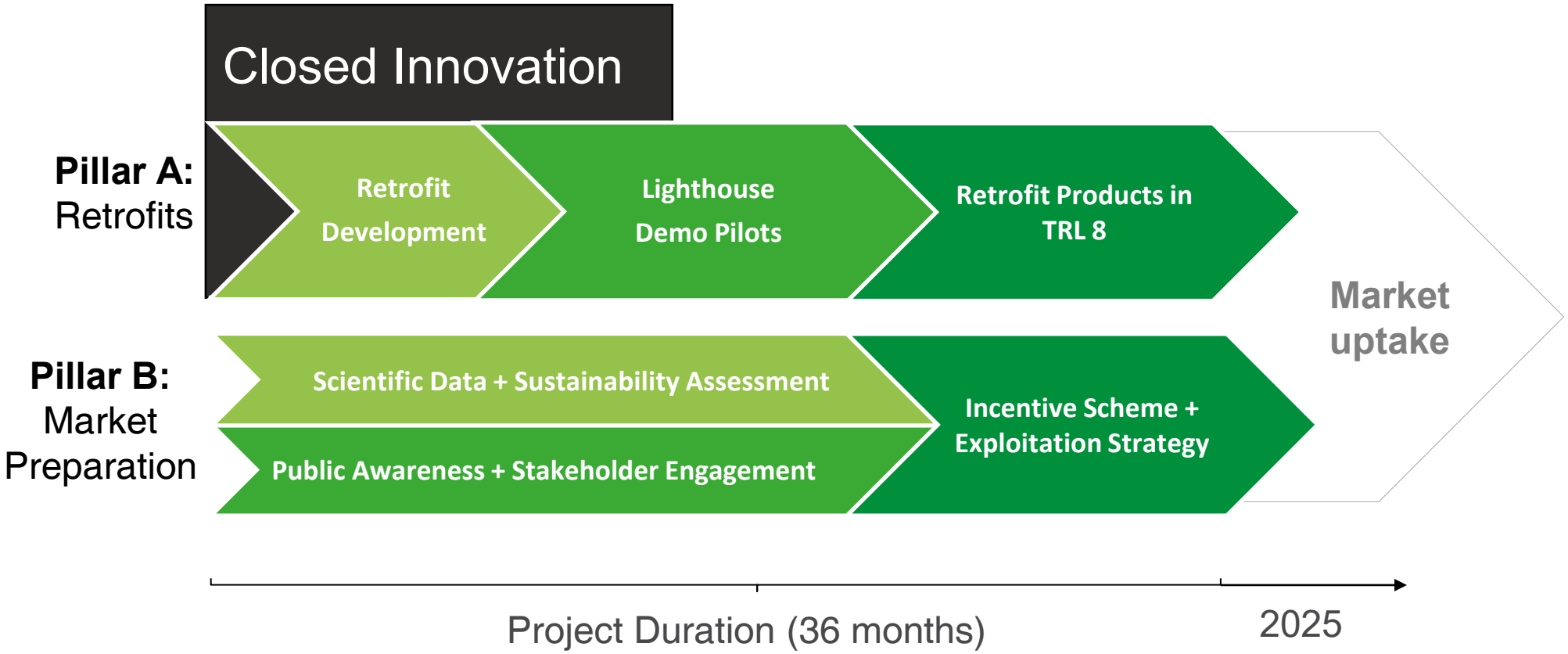
HOW: OPEN INNOVATION …



… FAST TRACT TO CLEANER URBAN AIR

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WHAT: OUR APPROACH & TEAM

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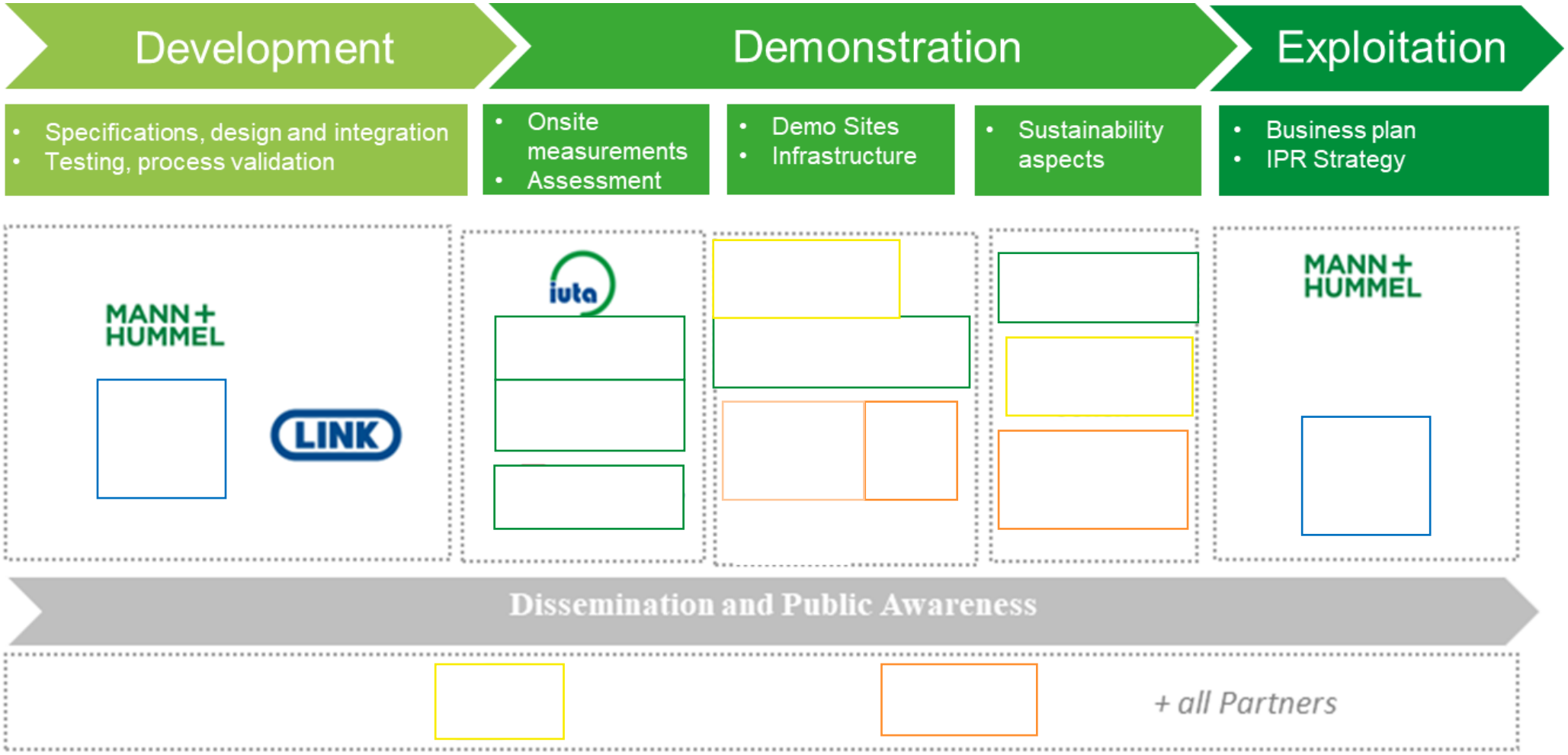

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WHAT: OUR APPROACH & TEAM

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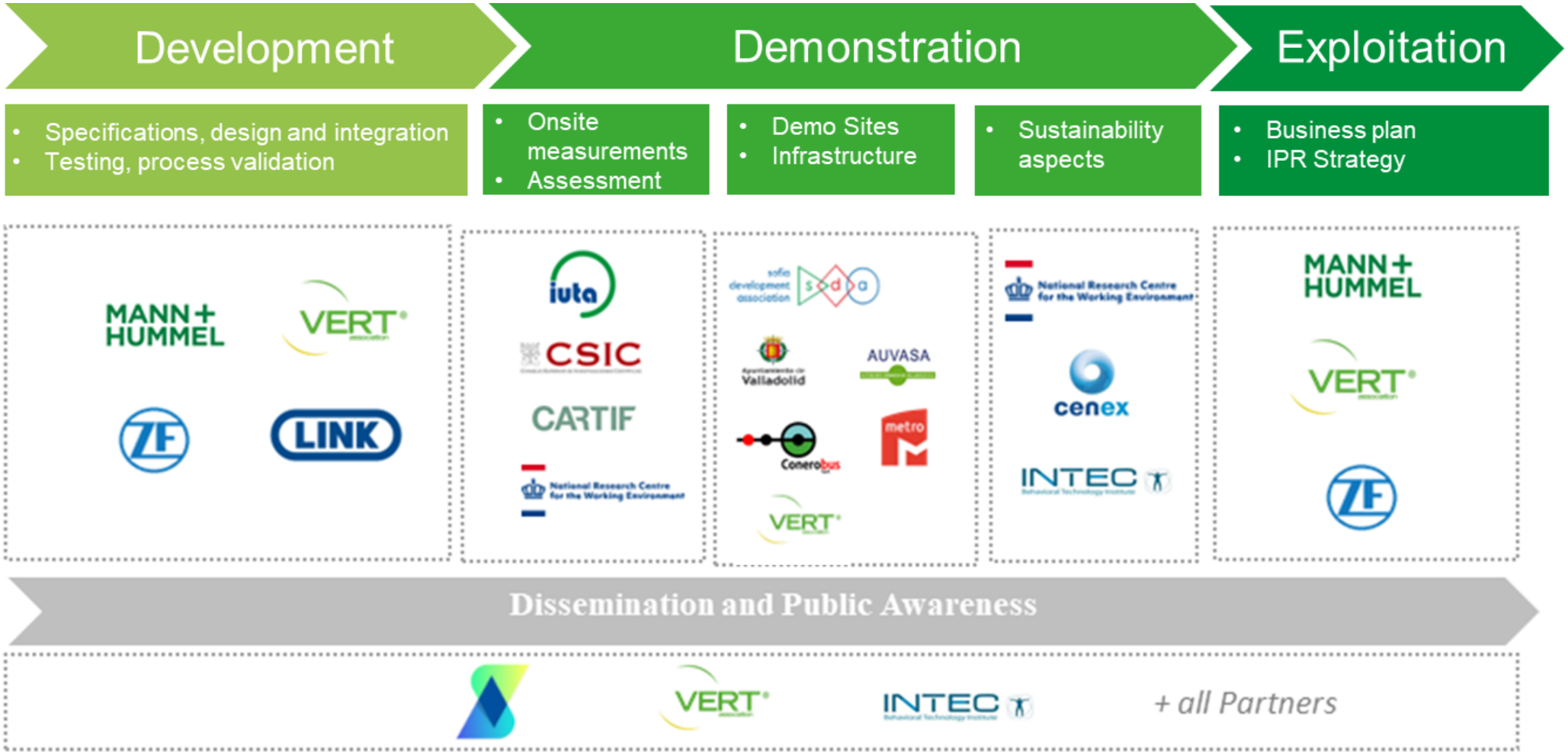

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EU CO-FUNDED INNOVATION ACTION

- **Grant agreement ID:** 101056661
- **Topic:** HORIZON-CL5-2021-D5-01-15 - Development and demonstration of cost affordable and adaptable retrofit solutions for tailpipe and brake polluting emissions
- **Timing:** 2022/05 – 2025/04 (36 months)
- **EU contribution:** € 5.00 million
- **Total cost:** € 8.22 million
- **Coordinator:** MANN+HUMMEL

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OPEN INNOVATION WITHIN THE EU FRAMEWORK:

INNOVATION ACTION AEROSOLFD

TAKE AWAY

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OUR CONSORTIUM

- 16 Partners
  - 8 Countries
  - About a dozen demo sites

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ADVANTAGE – HORIZON EUROPE

- **Common goal**: fulfill requirements of call text set by EU
- **Common framework**:
  - EU Grant Agreement, DESCA Consortium Agreement
  - Horizon Europe reporting (Deliverables, Administration, …)
- **Opens doors for collaborating**: Start with your network, think Europe!
- **Best practice:**
  - Open and cross-cultural communication
  - Cloud based shared documents and a logo
- **Don’t forget: It’s all about people**: Create an environment where everybody can & will give one’s best (trust & respect, win-win, use network, create teams for tasks)

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THANK YOU FOR YOUR ATTENTION

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Detailed information on website

(Blogs, newsletter, upcoming events,…)

Let’s stay connected!

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