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LIFE 'N Grab HY! project

The conclusions



Life N' Grab Hy
clean cities, clean air

Results lined up

Project figures

- 2 Hydrogen electric hybrid trucks designed and build
- First hydrogen hybrid in the EU with full homologation
- First 2 maintenance facilities adapted for hydrogen
- 3 demonstration-sites, 2 European countries



Results lined up

Project figures

- Total of 24.000 kms driven [Cape town to Vladivostok]
- GHG emissions saved and air quality improved
 - 45 Tons of CO₂
 - 20 kgs of Particulate Matter
 - 60 kgs of Nox
 - 93 kgs of CO
- Low noise operation => - 4Db (A)



Lessons learned



What to and not to do....

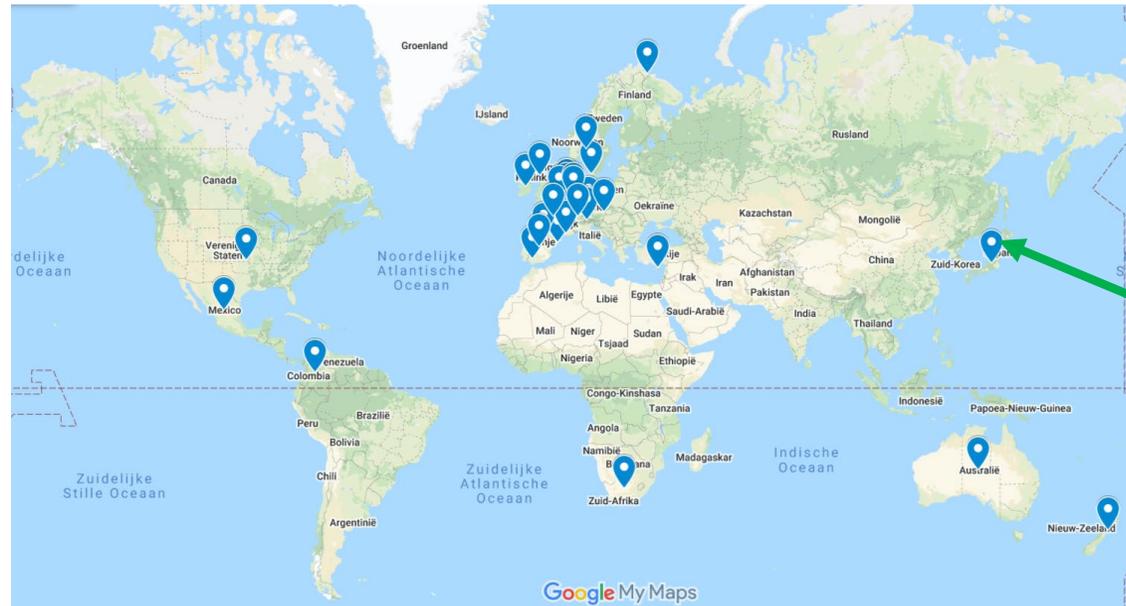
- New truck chassis and compactor works best
- Second LIFE investment in a truck + compactor gives additional issues due to age
- Larger FC needed, to recharge batteries
- Higher power output driveline / Electric motor



Conclusions of the project

Commercialisation

- LIFE 'N Grab HY! – “the vital step for upscaling”:
 - Prototype => Commercialisation
- World wide interest
 - > 50 cities and regions directly interested in the project and the LIFE 'N Grab HY! waste collection vehicles looking for next step



Source: <https://www.marketing91.com/wp-content/uploads/2019/12/Commercialisation-The-Definition.jpg>



Conclusions of the project

From prototype to...production

- E-trucks built 2 new production facilities in the Netherlands and Belgium
- Orders of > 25 trucks are placed
- Growth in employment at E-Trucks

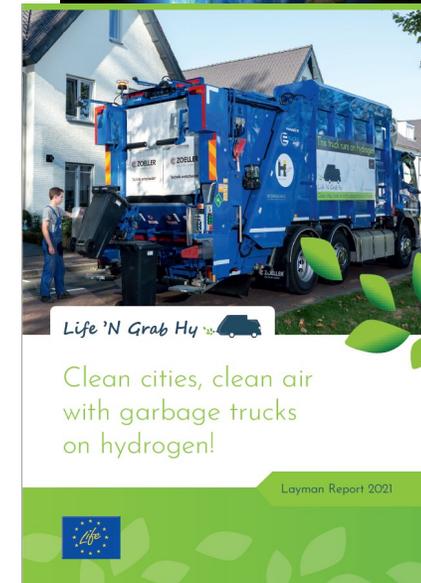


Conclusions of the project



Environment

- GHG – emission savings realised
- Air quality improved locally
- Improved working conditions also regarding health and safety
- The real results will become evident in the near future, when multiple vehicles are operated, multiplying the impact.
- The end users are in favour of the technology, but the costs of the vehicles and hydrogen have to be reduced
- Laymans report available now!
- Demonstration site flyers available now!
- After-Life report available soon.





Thanks to.....

We want to thank LIFE-EASME for their trust, faith and flexibility in the project

- Furthermore we thank:
 - The project partners: ***Baetsen, Cure, E-Trucks Europe and Hydrogenics***
 - The project monitor ***Mrs. Christy Duijvelaar (Neemo)***
 - All involved sites: ***Rotterdam, Antwerp, Düsseldorf, LeMans, Versailles and Sevilla***; for their efforts to prepare and organise the planned demonstrations (**cancelled due to Covid-19**) in their cities
 - The ***Hector*** and ***REVIVE*** project for the strategic cooperation among the projects
 - All interested ***stakeholders*** from over the world
 - ***The presenters*** of the presentations today
 - ***You***, the audience for participating in this online event and listening to all presentations!

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Bedankt voor uw aandacht!
Thank you for your attention!



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