### environment



National Institute for Public Health and the Environment *Government of the Netherlands* 



AERIUS for the living environment

Mark Wilmot Teamleader AERIUS

RIVM, National Institute for the Public Health and the Environment Netherlands

mark.wilmot@rivm.nl

March 29<sup>th</sup> 2017

www.aerius.nl/en @AERIUSapp

economy



### "Different' and 'new' is relatively easy. Doing something that's genuinely better is very hard"

Jonathan Ive

### Overview

- Context
- Different and new?
- Genuinely better?
- State of play
- Next Steps



Context: Environmental Challenge



## Context: ICT Challenge



- Policy Advisor
- Legislator
- Initiator
- Consultant
- NGO's
- Public



## What's genuinely better

### Easy accessibility

 API for calculation services, Accredited Information, Model, Open Data services, GML validation service

### Scalability

 Micro Services Architecture, Docker, AMQP message bus

### Reusability

 OGC compliance, Extended GML interoperability, Swagger built API

PostgreSQ





RabbitMQ

GitHub



ubuntu

### State of play, usage



# Steady number of approximately 500 user sessions per day

### State of play, costs

Development costs over 6 years: €10M

Estimate of public cost savings last 2 years: €25M

Maintenance cost per year: €2M

ISA⁴

### Next challenge





## **AERIUS** is:

an **Open Source** software instrument specifically developed to **support** an Integrated Approach to Environmental studies for the **evaluation of policy decisions, impact assessments** as well as **regulating permits**.

AERIUS combines the *complexity* of atmospheric transportation modeling, ecological impact assessments and reporting with the *ease of use* of e.g. posting on Facebook.

AERIUS products are publicly available and free of charge

