

Fuel cells and hydrogen

Joint undertaking

Knowledge Management

Info Days, 10 July 2014

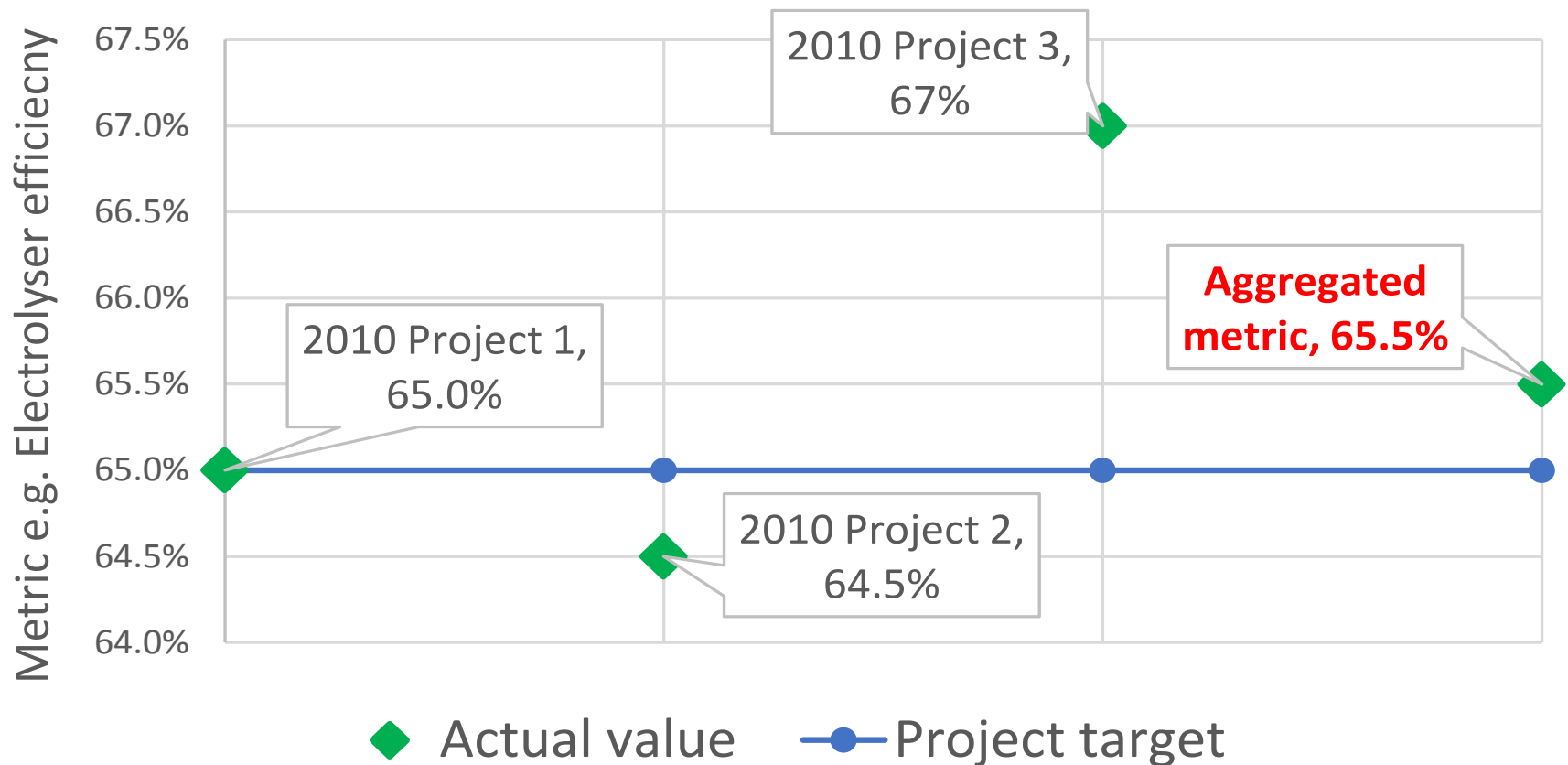


Knowledge Management aims firstly to establish where we are

- **Knowledge management (KM)** is identifying, capturing, evaluating, compiling & sharing of an organisation's information assets => here, technol-related information
- **KM process will facilitate measurement of technological progress being achieved via our programme:**
 - At a project level we evaluate what the project is achieving compared to the project's objectives and targets
 - We are now bringing this to a programme level, to evaluate, quantitatively, **how the FCH JU programme is contributing, through its portfolio of projects and their achievements, to advancing the technology towards commercialization => in accordance with the mandate of the FCH JU**

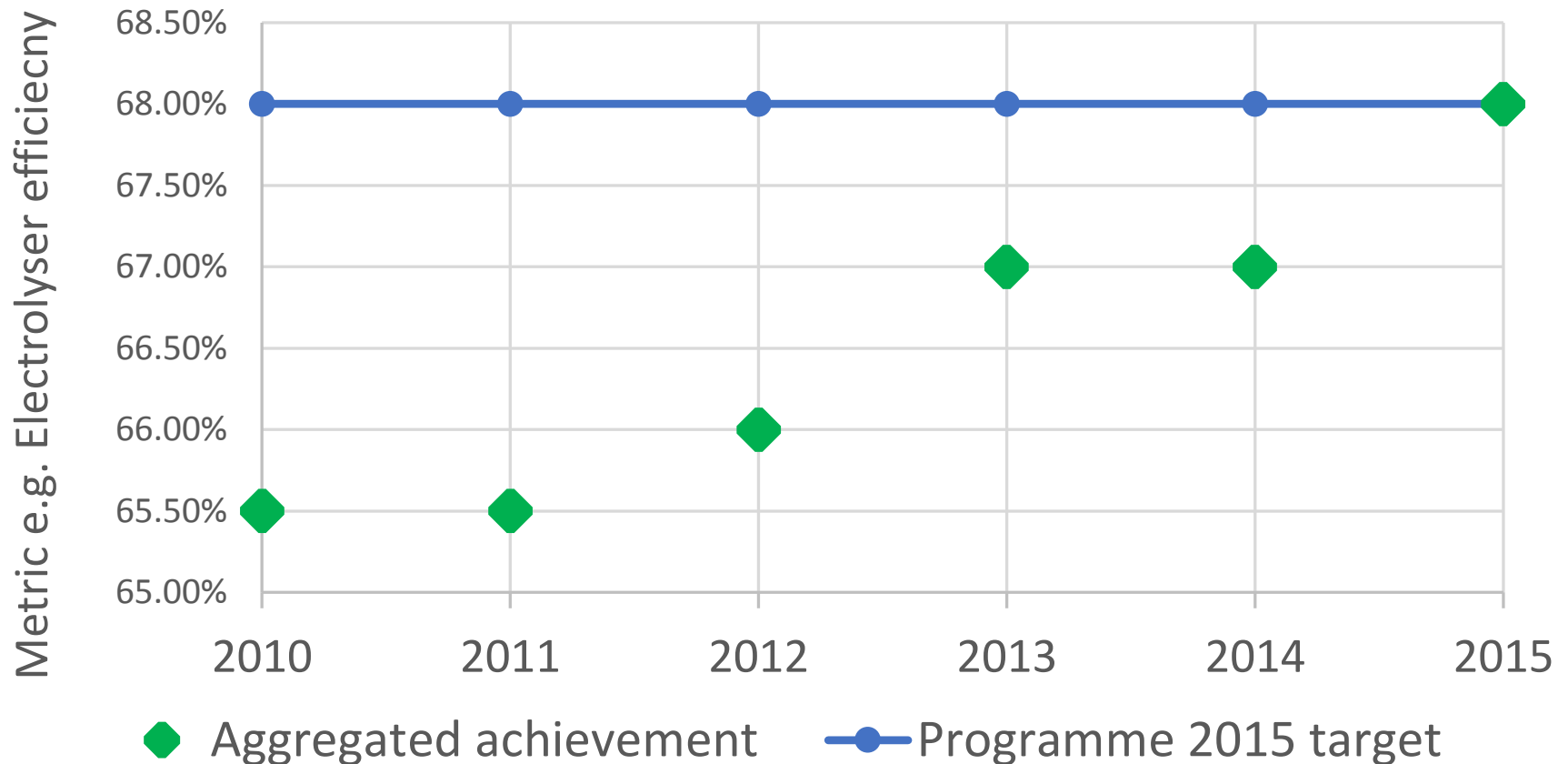
We are building on the picture of individual project achievements

Individual project achievements



To obtain a global view of what the programme is doing vs objectives

FCH JU programme achievements



To achieve this we need harmonised data collection

- Projects of similar type don't always measure/collect same data

	HyLights Framework	Project 1	Project 2
AIP requirements			
Vehicle operation lifetime			X
Operation of the vehicles/total distance travelled	X	X	X
MDBF (Mean distance between failures)			X
Vehicle availability	X	X	X
Tank-to-wheel-efficiency	X	X	X
Other reporting - Cumulative performance data			
Hydrogen refuelled and consumed	X	X	
Refuelling time		X	
Safety incidents reporting	X	X	X
Vehicle emissions – regulated emissions	X	X	
Customer satisfaction	X		

- Not all data collected by projects are KM-relevant

Harmonised data collection process & implications

- FCH JU is developing **parameter templates per technology type**, with **key techno-economic indicators/data requirements for KM purposes**
- Staged data collection is envisaged:
 1. **Finished projects:** internal (FCH JU) compilation of data based on data in final project report, to fill out template; “missing” data requested by FCH JU to coordinators via Excel format
 2. **Ongoing and future projects:** project data reporting/collection done directly by the project via software interface (TEMONAS)
- Much of the data already collected systematically – we’re aiming for centralized data collection on **averaged data**
- Not all data collected within the projects is required/KM-relevant

All of this in the context of wider objectives

- **Engaging support for the technology:** by confirming the progress of the European FCH industry and its relevance in Europe's energy future
- **Providing input to policy-making:** identifying and justifying areas warranting policy support
- **Gauging our position in the worldwide industry:** enabling us to capitalize on strengths
- **Orient FCH JU programme:** identifying gaps that require addressing to meet objectives/targets

TEMONAS will be main means for external data reporting

- **TEMONAS (TEchnology MONitoring and ASsessment tool)**
 - Tool developed via FCH JU project (delivered end 2013)
 - Allows **centralised entry, treatment and analysis** of data from all FCH JU projects in a **secure** environment
 - Facilitate creation of a programme-level picture to evaluate technological progress, achievements of the programme (vs MAIP, AIP, international SOTA), gaps, support needs
 - First step will be **pilot with sample of project(s)** using external (web-interface) data entry
 - Simultaneously, working on **in-house data population** (MAIP/AIP targets, industry benchmark)
 - Implementation of pilot before end-year, and conducting of first analyses, working towards **full implementation** & operation for 2015

Thank you!

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Extra slides

FCH JU Knowledge Management Process

