

# SAP-Centric EAM

## Mobilizing our Workforce for a Greener Future

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CONFERENCES  
an asu company



»What if you can  
create a work order  
from any location?«

**EC&R Wind Ops goes digital and mobil!**  
Innovative mobile solution! EC&R sets the pace  
in efficient operations and maintenance.

**e-on**



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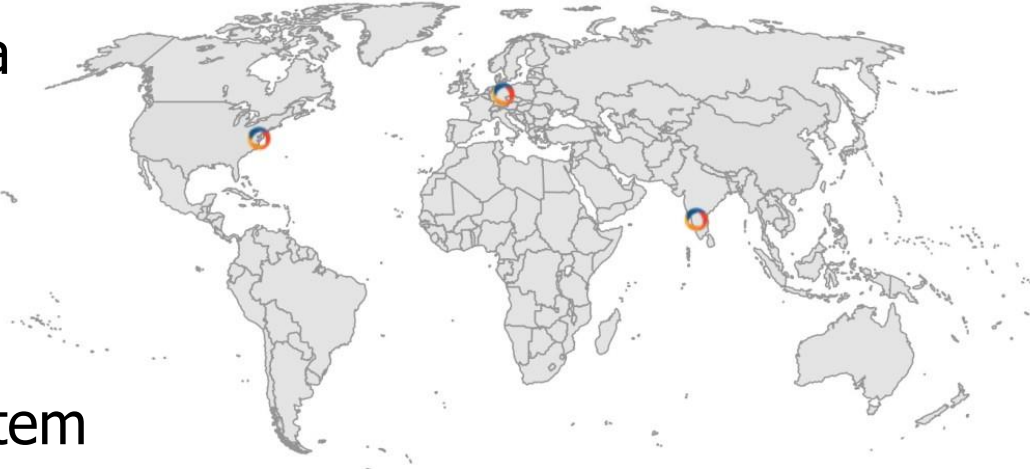
## What We'll Cover In This Session

1. Overview of E.ON ECR
2. Project Mission
3. The Challenges We Faced
4. Project Approach & Timeline
5. Solution Architecture
6. System Demonstration
  - View Historical Work against Turbine
  - Work Order Signature Capture
  - Request Materials for Repair
  - Full Offline Creation/Closure of a new Work Order
7. Lessons Learned
8. Q & A



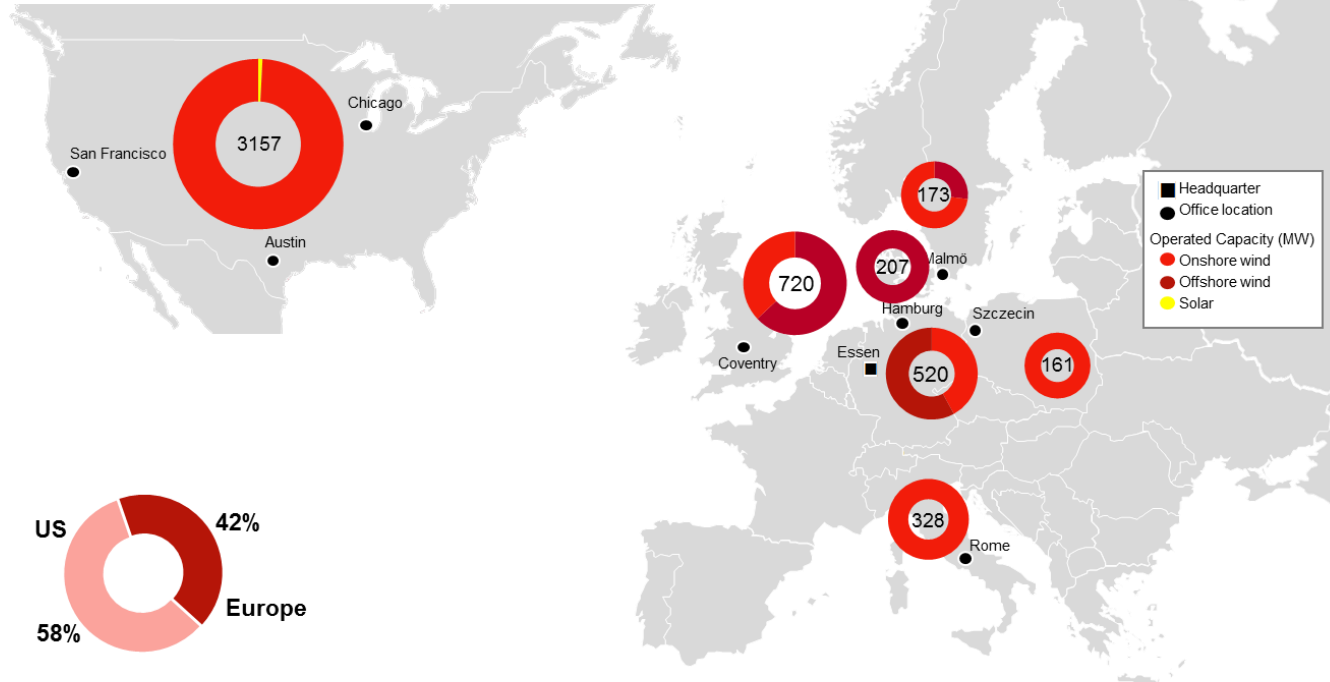
## Evora IT Solutions

- Offices in USA, Germany, India
- SAP and Mobile expertise: Mobility & Scheduling (Mobile Workforce Management)
- Partnerships with SAP, ClickSoftware and leading System Integrators
- Implemented projects all around the world



**evora**  
— IT SOLUTIONS —

E.ON Climate & Renewables operates a capacity of 5.3 GW across Europe and North America





E.ON Climate & Renewables has achieved a very solid position and excellent delivery

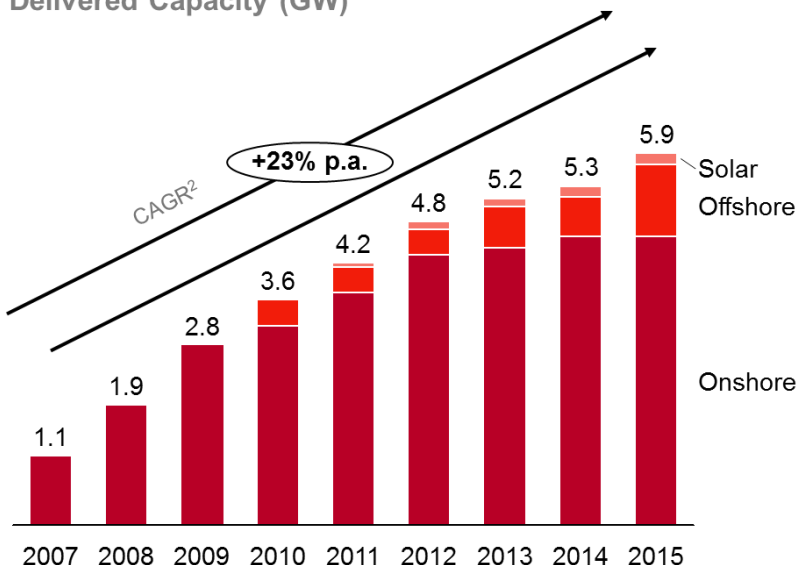


Global #2 in offshore wind<sup>1</sup>



Global #12 in onshore wind

Delivered Capacity (GW)



▶ We own a diversified renewables portfolio of 4.6 GW and operate 5.3 GW across Europe and US. Our total investment reached €10bn



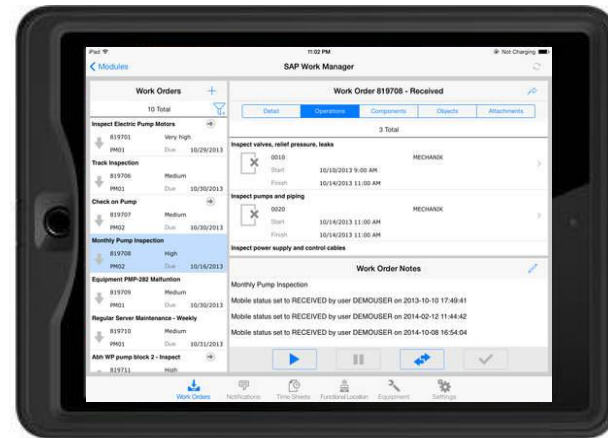
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1. The European offshore wind industry – key trends and statistics 2015, European Wind Energy Association
2. CAGR = Compound Annual Growth Rate

## Project Mission



We bring today's SAP PM and MM data and processes used by ECR on notebooks to iPads with special cases and bring it to the users.



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## Key Challenges

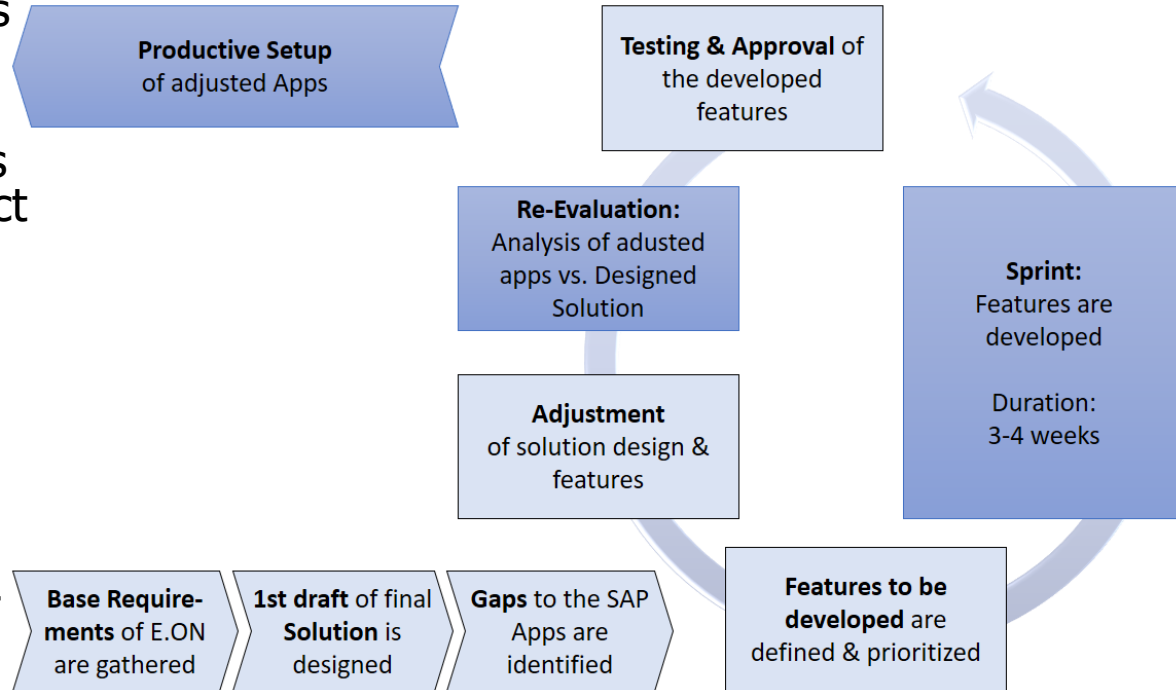
- Different Requirements for Different Countries
  - Varied legal requirements
  - Varied geographical policies (eg. Local order creation)
- Different levels of SAP usage with the user audience
  - Some familiar with the same business functions in scope for the iPad applications via SAP GUI PM & MM (close order)
  - Different Operations & Maintenance strategies





## Iterative Development Approach

- “Agile” with a series of 5 Sprints
- Pilot approach initially
- Feedback loop from rollout sites via Business Leads to the project
- Requirements reviewed, impact assessed, EON-driven prioritization in constant collaboration with Evora
- Scope of Following Sprint confirmed
- Continuous Knowledge Transfer to EON Support throughout



## Project Timeline

★ = Sprint Go-Live

Phase	Dec 2016	Jan 2016	Feb 2016	Mar 2016	Apr 2016	May 2016	Jun 2016	Jul 2016	Aug 2016	Sep 2016	Oct 2016	Nov 2016	Dec 2016	
Specification	Specification & Setup				Re-Eval		Re-Eval		Re-Eval		Re-Eval			
Development				Dev		Dev		Dev		Dev		Dev		
Test					Test		Test	Test 3			Test 4		Test 5	
Production								Go Live Pilot	Wave 2		Wave 3			
Support									Knowledge Transfer & Production Support					

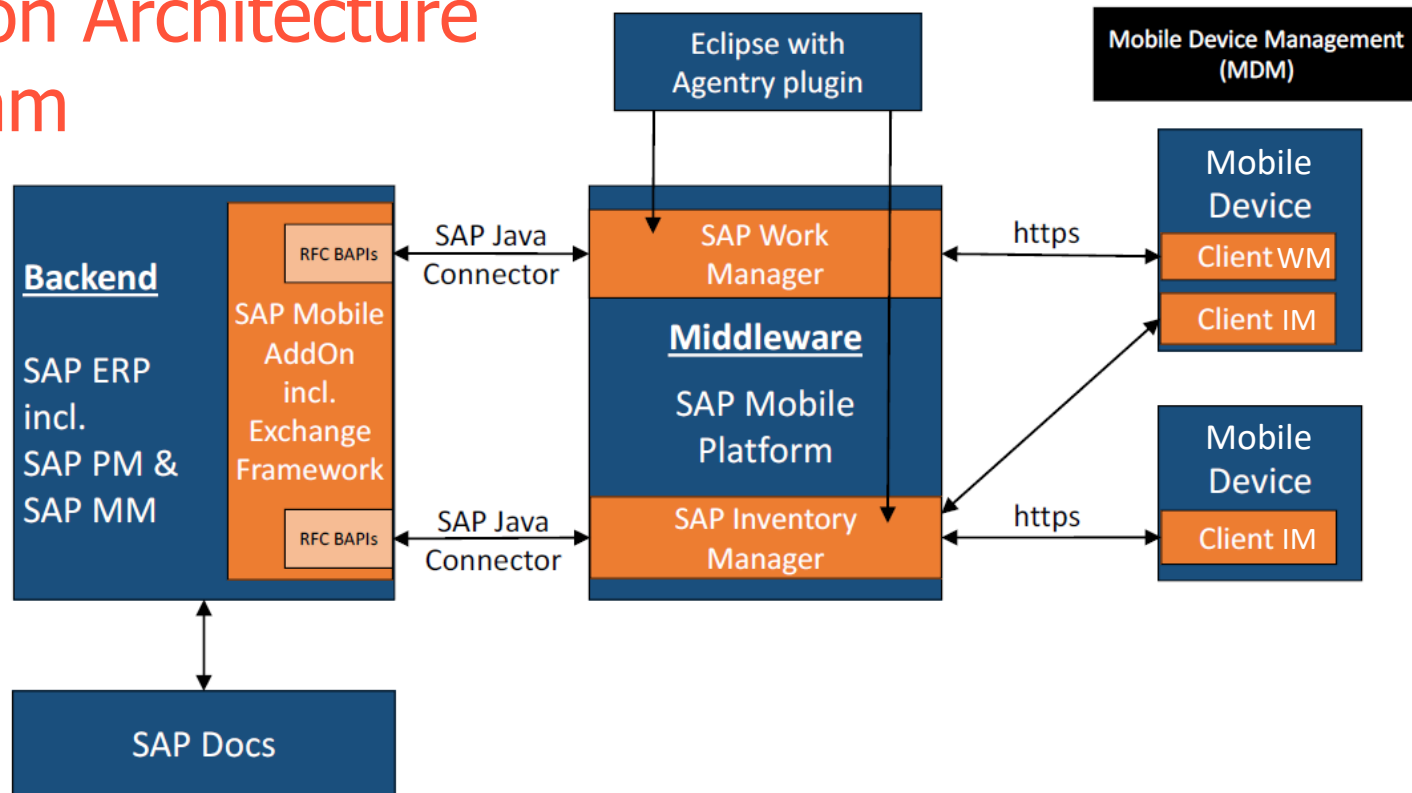


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## Solution Architecture Diagram



## System Demonstration

**Work Orders** + 3 Total

Search

**Split operation order**

600000004471 Medium Due 18/04/2016

**leakage of water**

600000004546 Medium Due 12/05/2016

**Test1205**

LOCAL\_2016-12... Low Due 05/12/2016

**SAP Work Manager**

**Work Order LOCAL\_2016-12-05\_16:04:28 - Completed**

Detail Operations Components Objects Attachments

Description: Test1205

Planning Plant: 8216 - E.ON Wind Services DK Rodsand

Planner Group: Z16

Work Center:

PM Activity Type: SDO - Defect Order

Basic Start: 12/05/2016 4:03:03 pm

Basic End: 12/05/2016 4:03:03 pm

Type: ZS01 - EON Reactive Maintenance Order

Priority: Low

FuncLoc: ROD-I01-MDY-30 - COLECTOR RING ARRANGEMENT

Equipment:

History

Notification: Created on:

**Work Order Notes**



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## Quotes of Success during Rollout

“The idea behind this project was to look for a solution from the wind technician’s perspective and listen to their feedback on what could improve their daily jobs. The interface is very intuitive and the **full online and offline usage** is a big advantage out in the field.”

Katja Bartsch-Wünschel (Director of Onshore Wind Europe)

“This mobile application will reduce the number of paper-based processes and **increase the data quality and quantity** of our maintenance database which will be a foundation for further process improvements and cost savings.”

Mark Porter (Director of Asset & Pipeline Management)

“The new app is amazing. It is **much more intuitive** than the current desktop one and we will save a lot of time and paper. I feel like entering a new chapter in the digitalization of EON.”

Emil Bendtsen (technician at Rødsand wind farm)

“The big advantage is that now they can create a notification directly with pictures and descriptions. This ensures a higher quality of reporting and saves us time and we also expect to **improve the warehouse management processes**.”

Pia Lanken (Rødsand Plant Manager)





## Key Lessons Learned

- Review SAP Security Profiles Early
- Requirements Gathering – establish a S.P.O.C!
- Support Requirements with Screenshots
- As always, stay close to Standard → consider support
- Having Evora onsite during sprint rollouts was beneficial for all
- Consider External Factors (iOS10 upgrade)



**Questions**





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