

Data Sharing and Modeling in support of Nano Environmental Health & Safety Goals

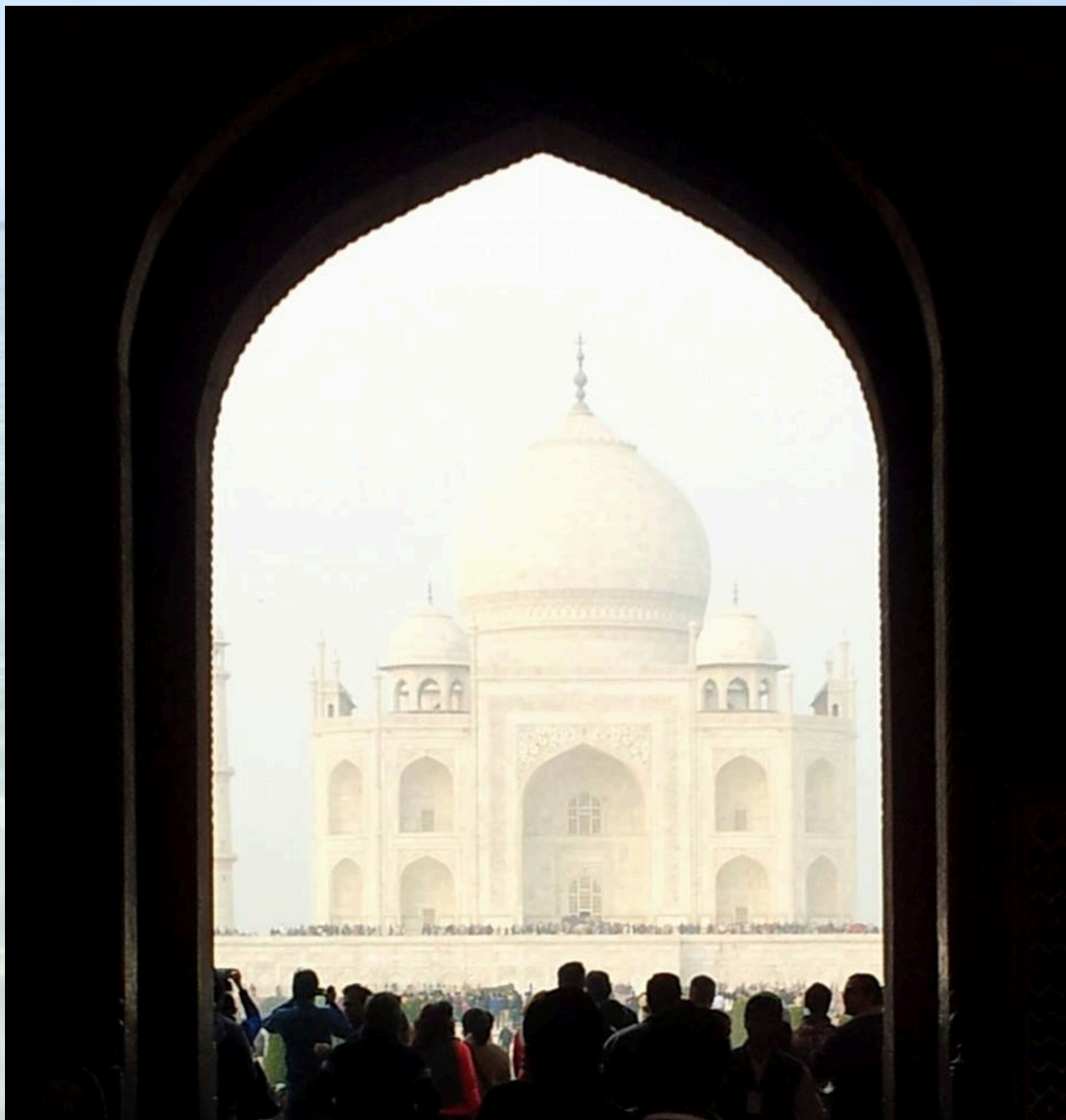
EU-US: Bridging NanoEHS Research Efforts

13 March, 2015

Barry Hardy (Douglas Connect, Switzerland)

and

Nathan Hodas (Pacific Northwest National
Laboratory, USA)

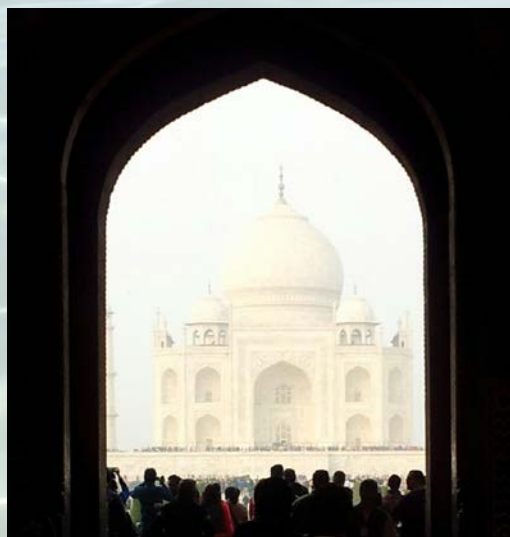


NanoEHS – Data & Modeling CoR – Thanks!



Thanks for the foundation built by the outgoing chairs Nathan Baker and Hubert Rauscher!

We have debriefed with them and are taking over the baton for the next leg of the race.



Islands – a reality of geography



Source: Baily Ed, U.S. Fish and Wildlife Service

NanoEHS Data & Modeling – Themes of our Discussion

Reference Information

More Open Data

Interoperability

Transparency

Ontology

Sustainability

Integrated

Use cases

Reuse

Open Source

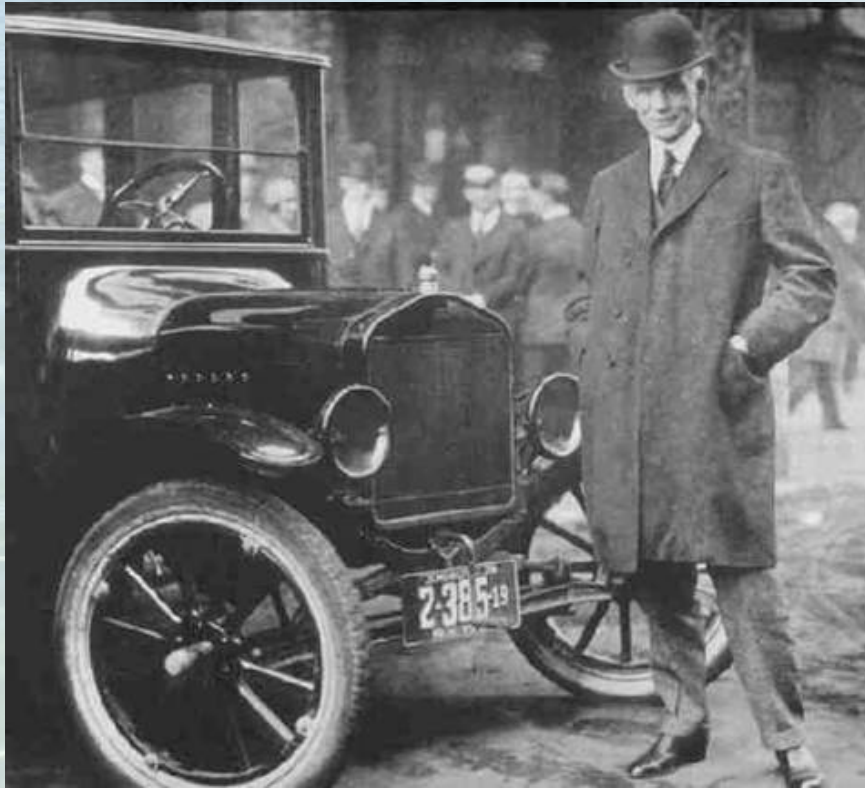
Knowledge

Systems Design

Create Solutions



What do we need?



If I had asked my
customers what they wanted,
they would have told me:

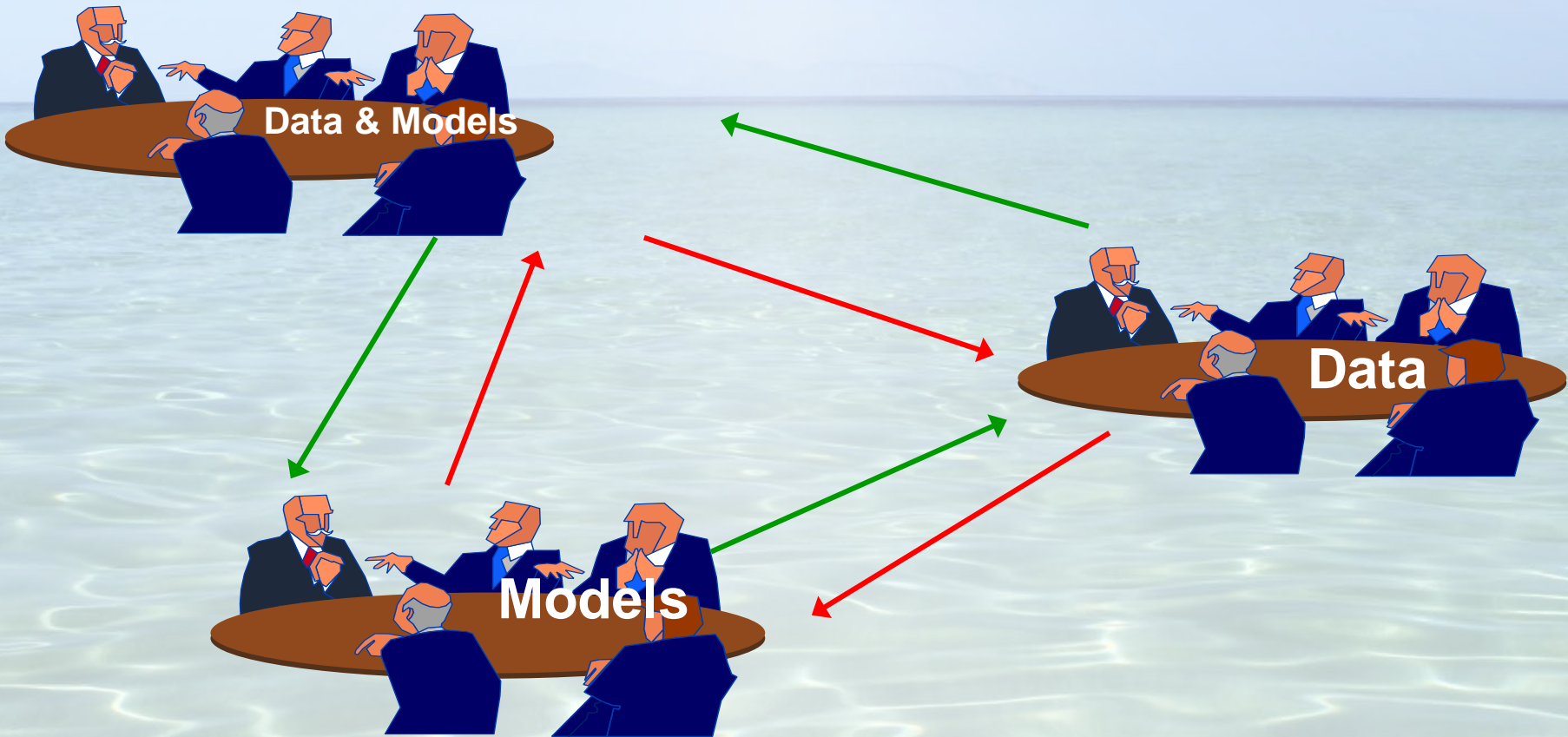
faster horses!

Henry Ford – Automotive Pioneer

NanoEHS – Data & Modeling CoR Plan of Action

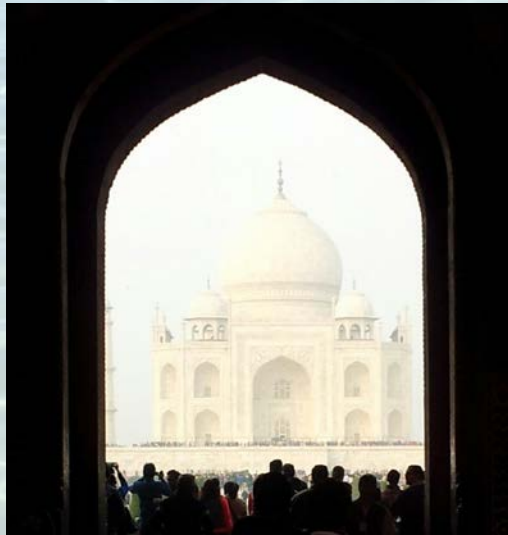


1. Define Use Cases (with other CoRS)
2. Create Systems Design for «Nano Knowledge Car»
3. Evaluate Existing Resources (Open Data and Software)
4. Develop Sustainability Plan
5. Create Application based on Open data, software, protocols, and ontology (Agile Development)
6. Support collaborative work of all CoRs with using the Application



- NanoEHS Scrimmage Application could:
- Provide information and models supporting interdisciplinary discussions
 - Support and capture decision making processes
 - Be a Nano «Google-Watson-Facebook»

NanoEHS – Data & Modeling CoR Plan of Action



Let's use our
combined resources
and components and
build it!