
CLEPA Materials Regulations Event

Material Data Reporting Evolution

Provided by:

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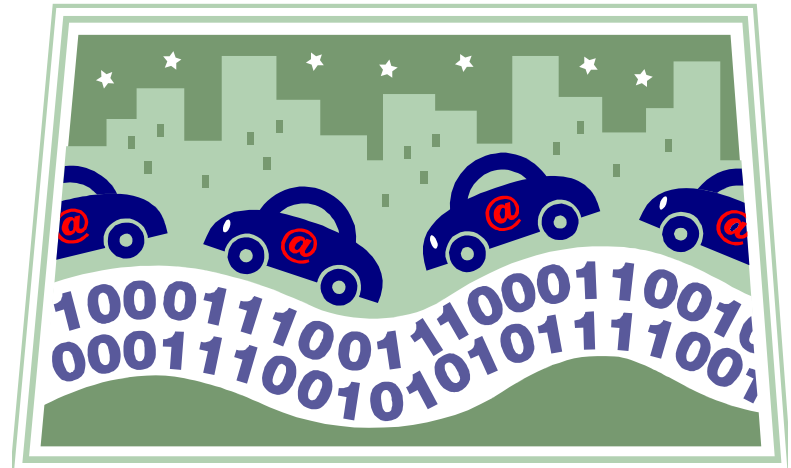
Agenda

- Objectives of Material Data Reporting
- Framework Requirements of Material Data Reporting
- Current Challenges for Material Data Reporting
- Further Challenges

Objectives of Material Data Reporting

Objectives for Material Data Reporting Approaches:

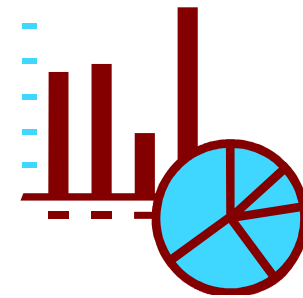
- Reporting of Information about components and processes within the supply chain
- Help customer in order to meet their requirements according to the national and international standards, laws and regulations



Framework Requirements

Framework Requirements for Data Reporting Systems:

- Material reporting focused on different aspects
 - Environment, Sustainability, Purchasing, Quality, ...
- Cost efficient solution
- Realistic and reliable Information
- Intellectual Property Protection
- Compliance with competition law
- Integration of non-testable features
- Preparation for future requirements



Current daily problems of IMDS

Challenges at IMDS:

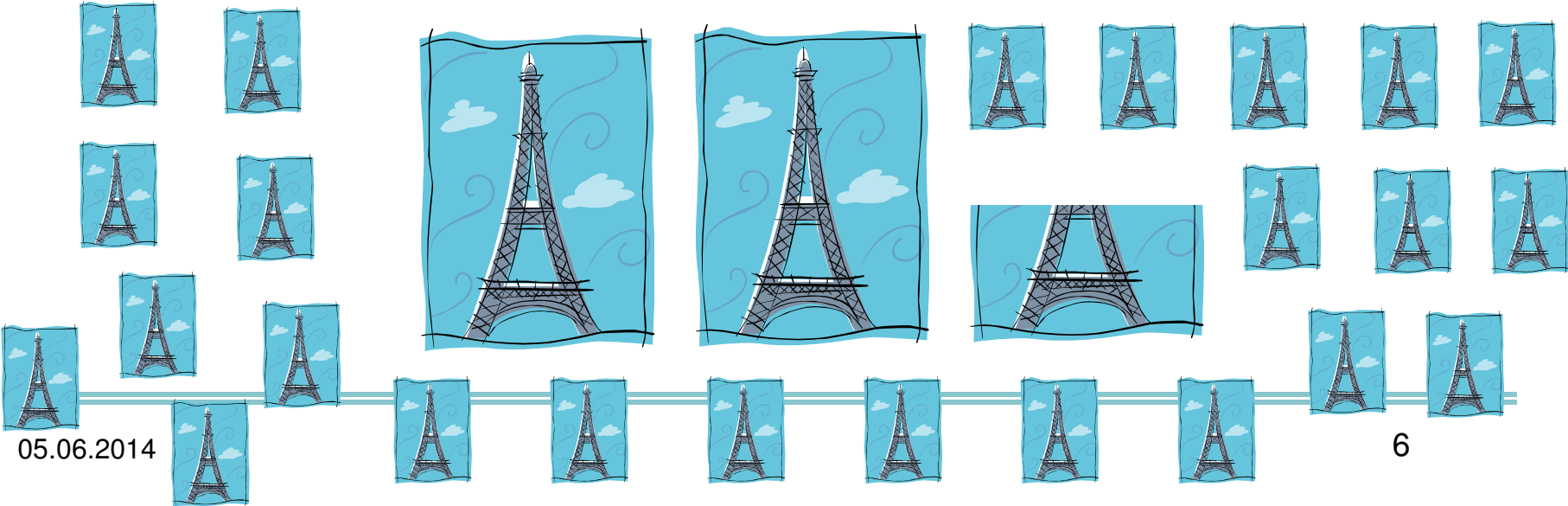
- Wrong material name
 - Same ID new version
 - Other than IMDS published materials
 - Polymeric part marking
 - Classifications
 - ...
- Which kind of regulation is asking for such information?
- Does it help concerning material compliance?
- Does it increase reliability of information?
- If you know what you get, you don't need material data!



Effort spend for IMDS

Rough effort estimation for IMDS within the Automotive Supply Chain

Time per data sheet in min	30'	10'	60'
Number of Data Sheets 2011	4.277.407	4.277.407	4.277.407
Total time in minutes	128.322.210	42.774.070	256.644.420
Total time in hours	2.138.704	712.901	4.277.407
Total time in days	267.338	89.113	534.676
Total time in person years (220 days)	1.215	405	2.430
Costs (Average Costs per Employee 40k€)	48.606.898	16.202.299	97.213.795



Further Challenges

Challenges for Material Data Reporting 2020:

- Reduce Costs for Material Data Reporting
- Increase Information Quality and not Data Quality
- Prepare for other Requirements and Legislations
- Involvement of further Participants (suppliers and other markets)

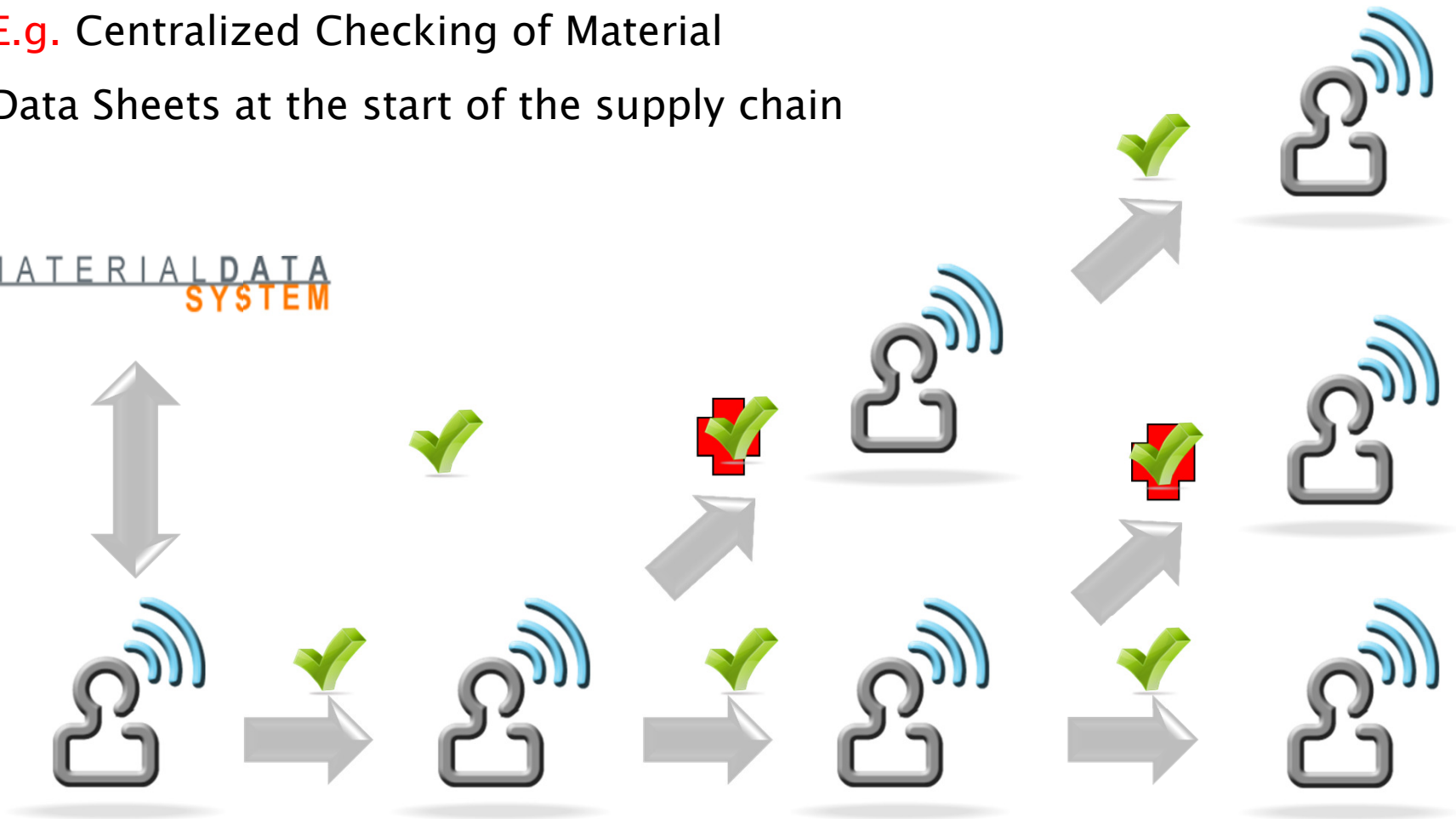


Reduce Costs by Centralized Checking

How to reduce effort?

- **E.g.** Centralized Checking of Material Data Sheets at the start of the supply chain

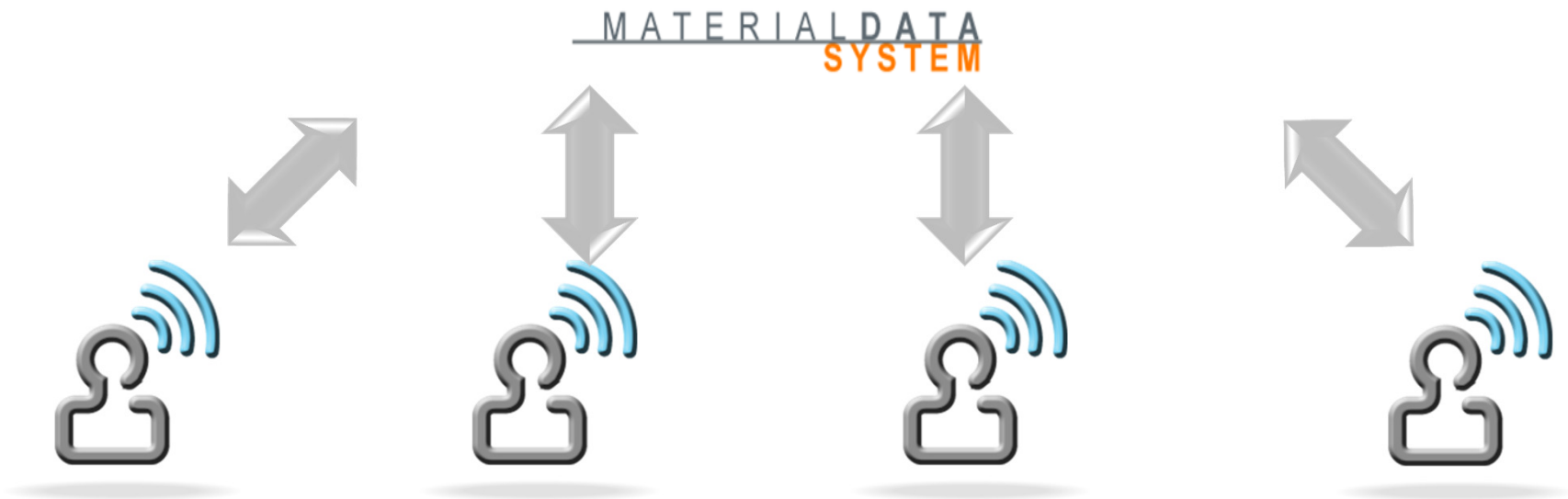
MATERIAL DATA
SYSTEM



Increase Information Quality not Data Quality

How to increase information quality?

- Data Mining within IMDS
 - Combine text with material content and component structure
 - Avoid mistakes by checking similarities
- Collaborative Testing of Parts
 - Evaluate risk of material compliance



Prepare for further Requirements

IMDS is an Information Exchange Platform

- XML is a format which can be easily adapted (REACH, Sustainability, etc.)
- No addition tool for conflict minerals or sustainability is needed!

MATERIAL DATA
SYSTEM

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE Task SYSTEM "../data/upload.dtd" >
<Task>
  <Datasheet>
    <Module LocalKeyDef="Test_Material" Mode="Insert" Status="Intern">
      <Material Name_EN="Test_HW_Migration" Category="8.1" Remark_EN="This material
contains substances with a generic description as the actual composition of the
substances are either considered proprietary or no official CAS number is available.
If a CAS number is given, it is the closest match available.">
        <Norm InstName="TS" NormCode="A4444"/>
        <Substance IMDS_ID="1252" FixValue="00.30" ProcessChemType="Intended"/>
        <Substance IMDS_ID="2312878" FixValue="09.00" ProcessChemType="Intended"/>
        <Substance IMDS_ID="154866" FixValue="19.70" ProcessChemType="Intended"/>
        <Substance IMDS_ID="2210" FixValue="71.00" ProcessChemType="Intended"/>
      </Material>
    </Module>
    <Chap3 ContactID="1"/>
  </Datasheet>

  <Module Mode="Update" IMDS_ID="901844109" DevSampleRep="No">
    <SemiComponent ArtNr="55-00-23" Name="MySemiComponent">
      <RefMaterial LocalKeyRef=" Test_Material " Type="Fix" FixValue="100"/>
    </SemiComponent>
  </Module>
</Task>
```

Picture 2.2: A sample for an XML-upload-file

Involvement of Further Participants and Markets

Preconditions:

- Nearly All suppliers have customer in other markets or regions and need to send conformity statements to them

What will happen, if IMDS will not be more open:

- A lot of suppliers will collect in other systems and send to IMDS

Short term actions

- Involve suppliers as full partner in order to get better solutions (e.g. how to handle REACH)

Conclusion

IMDS is a great System,
but it could be improved...!

Contact

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