


# Smart Logistics in Horticulture


Joint Stakeholder Meeting of the Horticultural Trials in the Flspace project  
6 June 2013, LogiXperience in Venlo, The Netherlands



## Smart Logistics in Horticulture





**Introduction**



Smart Logistics in Horticulture  
Joint Stakeholder Meeting  
LogiXperience, Venlo, The Netherlands  
6 June 2013


**Cor Verdouw, Robert Reiche**

 Agenda Smart Logistics in Horticulture					
<b>13:00</b>	<b>Arrival other participants, Coffee</b>				
<b>13:30</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Welcome, Introduction Flspace and Workshop Agenda</td> <td style="width: 50%; border: none;">Cor Verdouw, Wageningen UR</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;">Robert Reiche, Euro Pool System</td> </tr> </table>	Welcome, Introduction Flspace and Workshop Agenda	Cor Verdouw, Wageningen UR		Robert Reiche, Euro Pool System
Welcome, Introduction Flspace and Workshop Agenda	Cor Verdouw, Wageningen UR				
	Robert Reiche, Euro Pool System				
<b>13:50</b>	Demonstration RFID in Horticulture Thomas de Vos, Mieloo & Alexander				
<b>14:15</b>	<b>First round of workshops (all participants follow both workshops)</b>				
<b>14:15</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><b>Fresh Fruit &amp; Vegetables Trial (1)</b></td> <td style="width: 50%; border: none;"><b>Plants &amp; Flowers Trial (1)</b></td> </tr> <tr> <td style="border: none;">Robert Reiche, Euro Pool System</td> <td style="border: none;">Robbert Robbemond, Wageningen UR</td> </tr> </table>	<b>Fresh Fruit &amp; Vegetables Trial (1)</b>	<b>Plants &amp; Flowers Trial (1)</b>	Robert Reiche, Euro Pool System	Robbert Robbemond, Wageningen UR
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Robert Reiche, Euro Pool System	Robbert Robbemond, Wageningen UR				
<b>15:00</b>	<i>Coffee Break</i>				
<b>15:20</b>	<b>Second round of workshops (all participants follow both workshops)</b>				
<b>15:20</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><b>Fresh Fruit &amp; Vegetables Trial (2)</b></td> <td style="width: 50%; border: none;"><b>Plants &amp; Flowers Trial (2)</b></td> </tr> <tr> <td style="border: none;">Robert Reiche, Euro Pool System</td> <td style="border: none;">Robbert Robbemond, Wageningen UR</td> </tr> </table>	<b>Fresh Fruit &amp; Vegetables Trial (2)</b>	<b>Plants &amp; Flowers Trial (2)</b>	Robert Reiche, Euro Pool System	Robbert Robbemond, Wageningen UR
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Robert Reiche, Euro Pool System	Robbert Robbemond, Wageningen UR				
<b>16:05</b>	Plenary Discussion and Closure Henk Zwinkels, Floricode				
<b>16:30</b>	Drinks and networking				
<b>17:30</b>	End of the meeting				



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## Logistics in the Food and Agri-business


Agri-Food: ± 20% share in the EU road transport  
*(Eurostat/TLN 2008)*

- Demanding sector-specific challenges, including:
  - High supply uncertainty due to natural production
  - High perishability
  - Seasonable growing, global sourcing
  - High demands on food safety, quality and legislation
  - High tracking and tracing and planning complexities
  - Additional phytosanitary and veterinary inspections
  - Many SMEs
- Current ICT solutions not sufficiently meet these demands
  - Relative poor level of integration
  - Limited flexibility
  - Intelligent use of data lags behind








## Future Internet Application Potentials for Smart Agri-Food Logistics




Logistics Intelligence





Logistics Connectivity



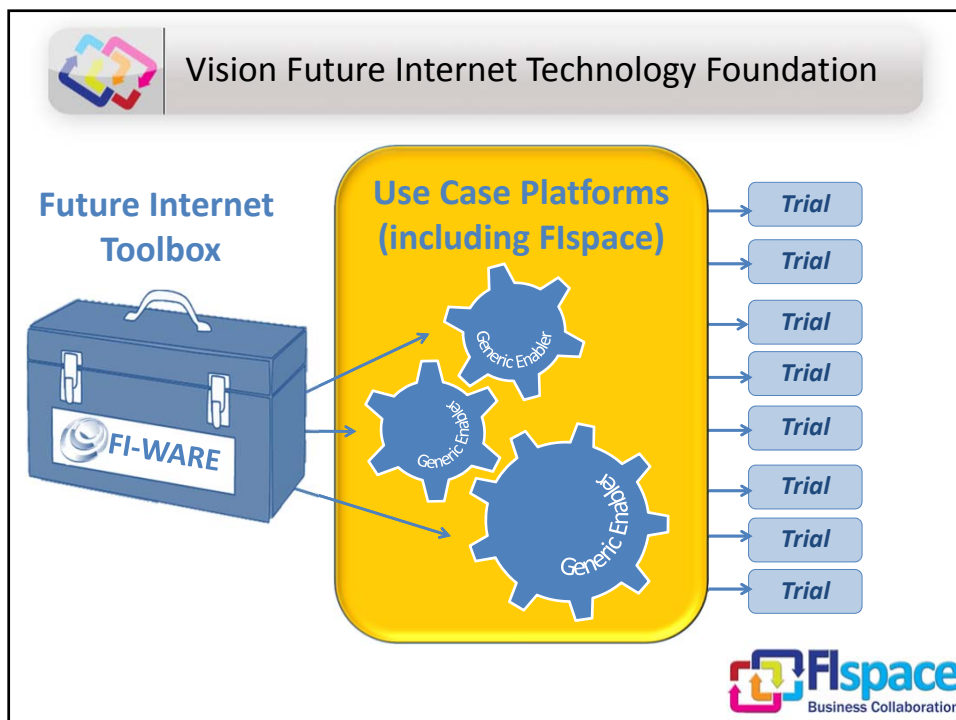
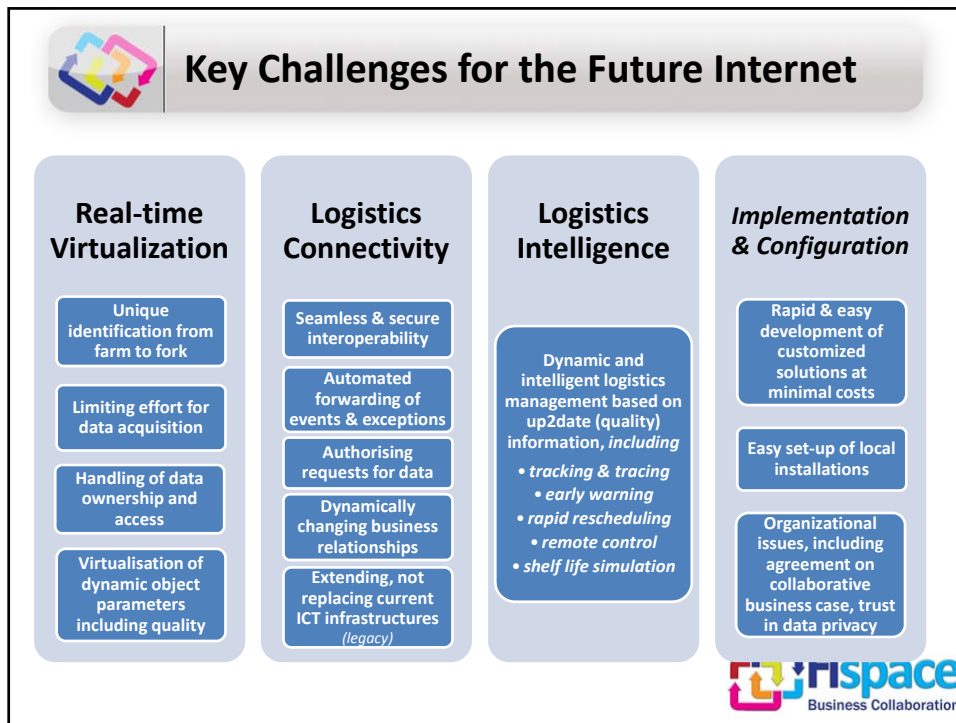
Real-time Virtualization



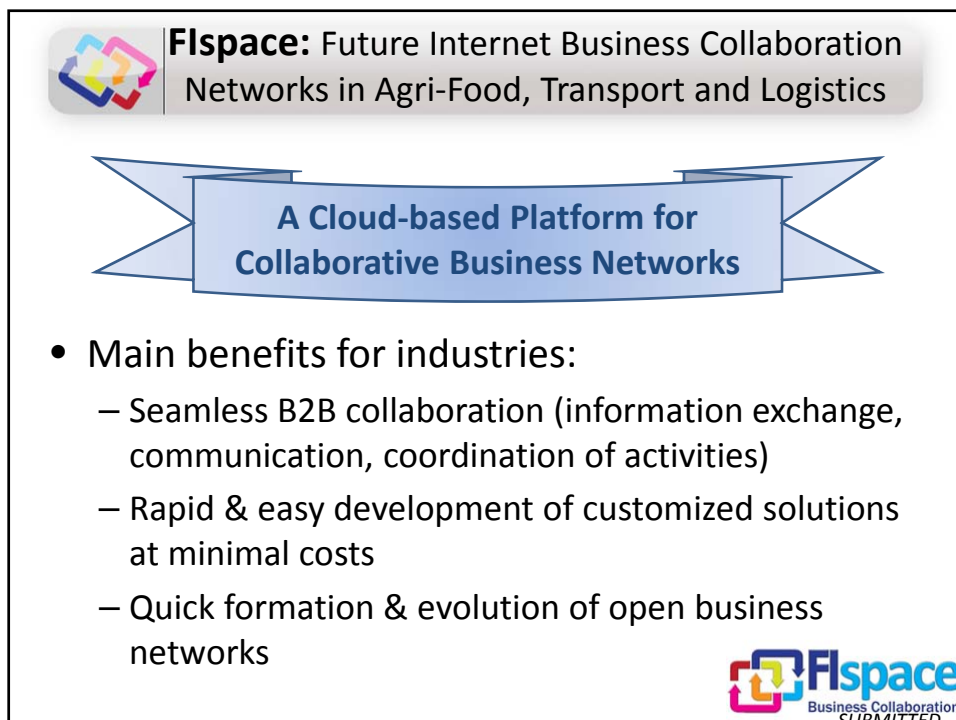
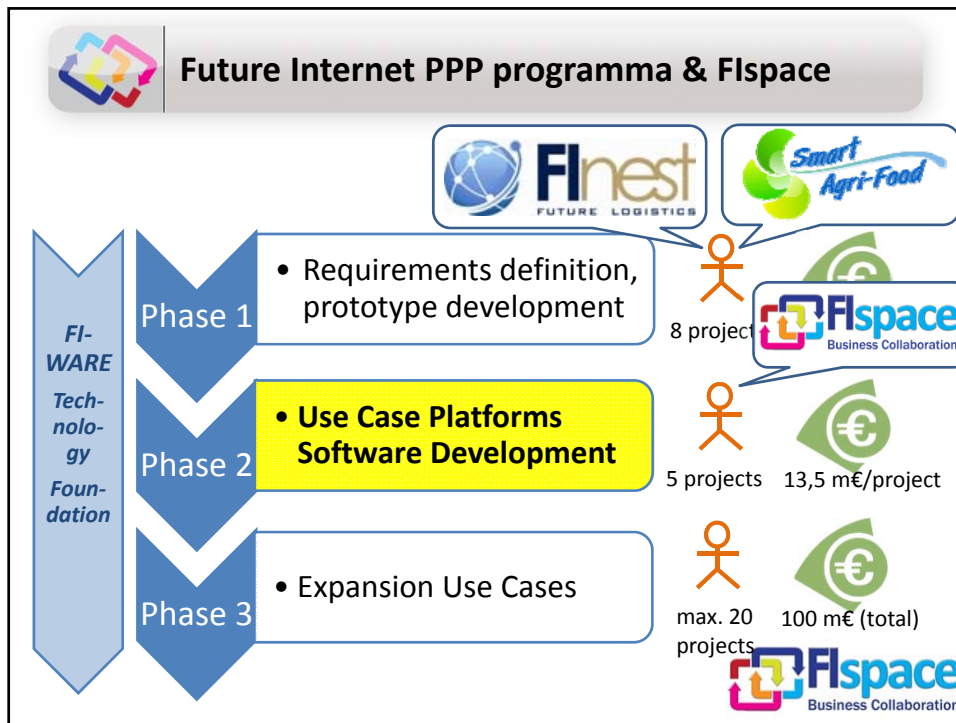
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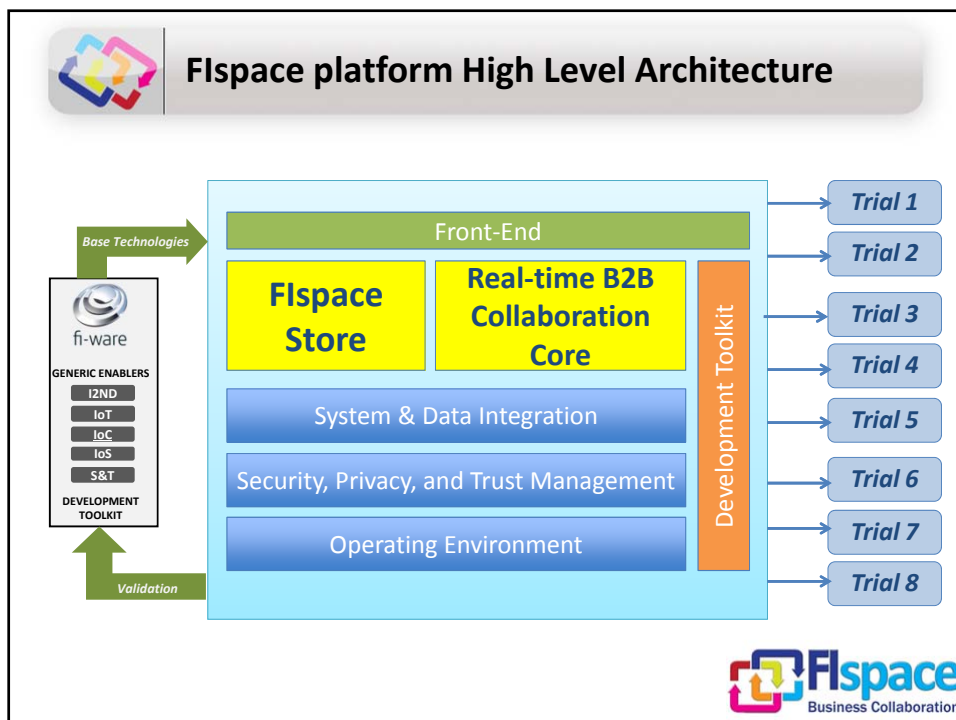
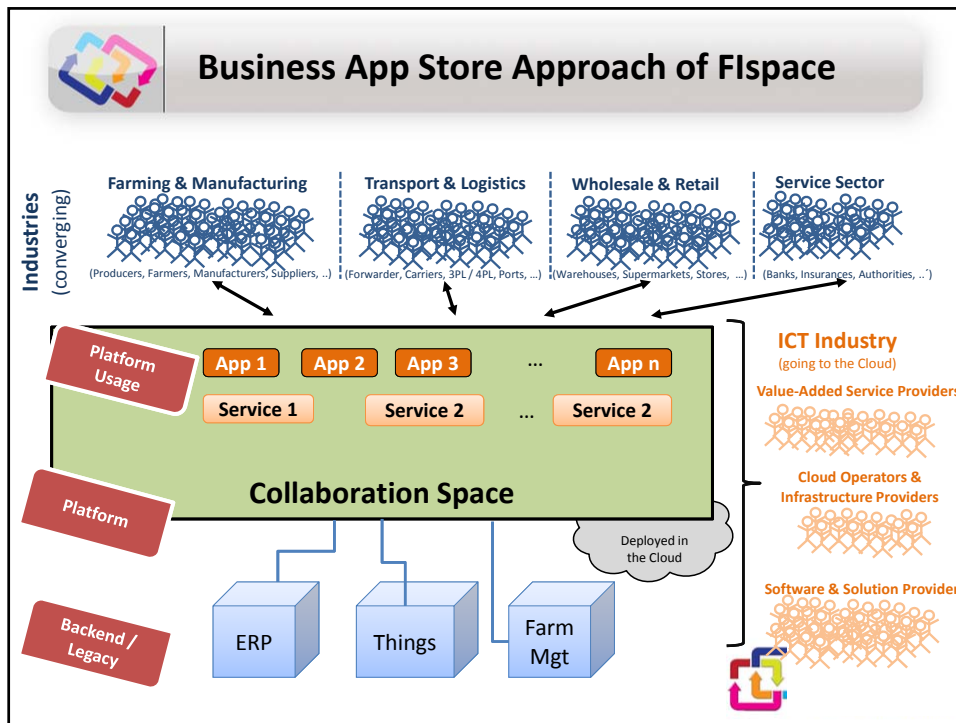
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Project Details

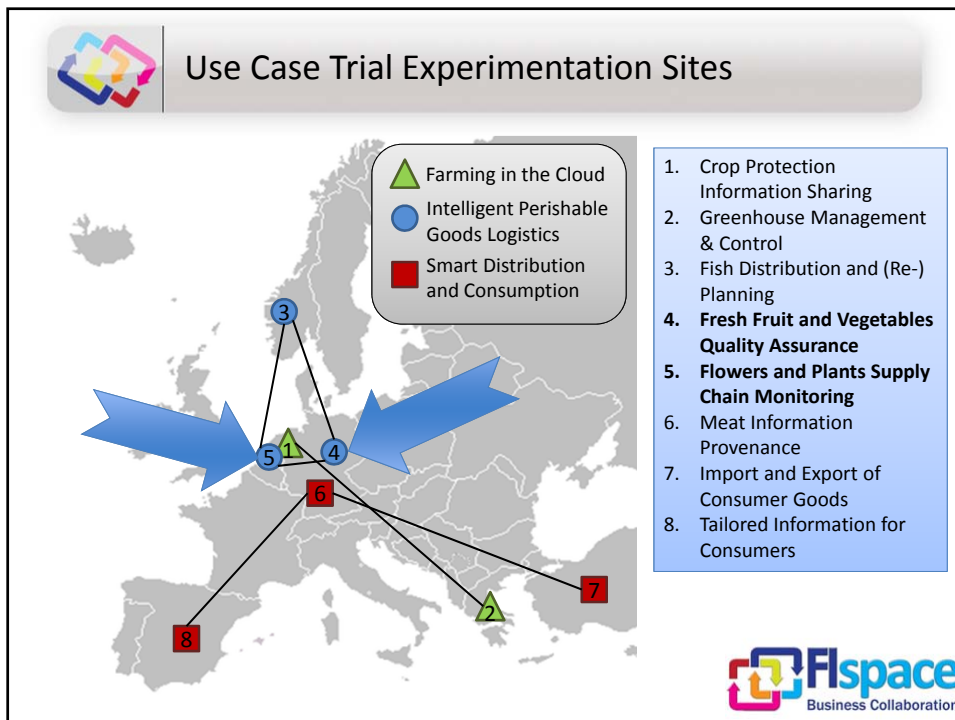
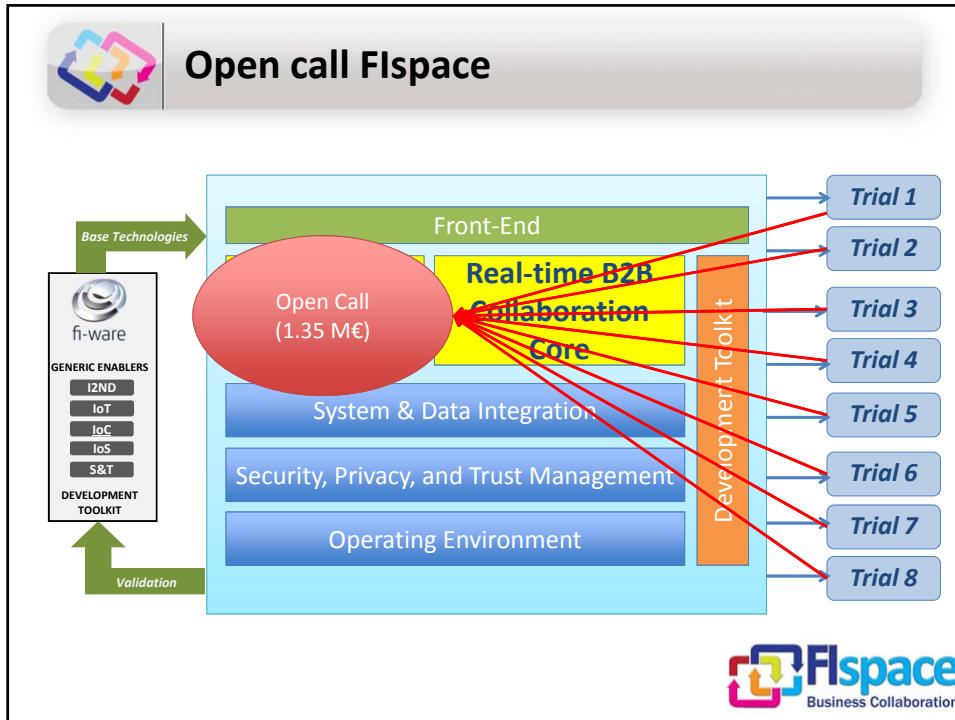
- EU Seventh Framework Program (7FP)
  - Future Internet Public Private Partnership programme (FI-PPP)
- Project type: Collaborative Project - Large-scale Integrated Project (IP)
- Total budget: 20 M€
- EU funding: 13.5 M€
- Duration: April 2013 – April 2015 (FI-PPP phase II)
- Grant Agreement: 604123
- Project coordinators:
  - Sjaak Wolfert, Wageningen UR, The Netherlands
  - Rod Franklin, Kühne + Nagel, Switzerland
- Website: [www.Flspace.eu](http://www.Flspace.eu)

}
Project Consortium

ICT providers:	
System Integrators & Standardisation:	
End users:	
Knowledge Institutes:	
Community Builders:	

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**Questions ?**

**Dr. Cor Verdouw**  
LEI Wageningen UR, The Netherlands  
cor.verdouw@wur.nl

**Dr. Robert Reiche**  
Euro Pool System International (Deutschland) GmbH  
robert.reiche@europoolsystem.com  
[www.Flspace.eu](http://www.Flspace.eu)




*The next slides provide some additional background information and are not used in the presentation.*



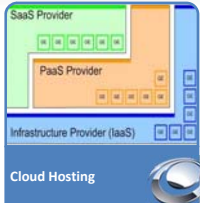


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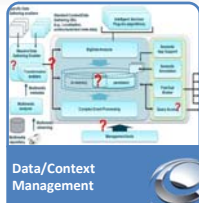
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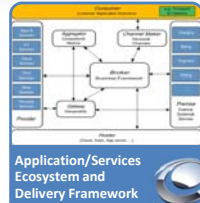
What is in the FI-WARE toolbox?



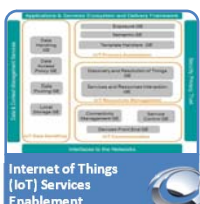
Cloud Hosting



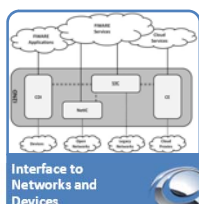
Data/Context Management




Application/Services Ecosystem and Delivery Framework



Internet of Things (IoT) Services Enablement





Interface to Networks and Devices



Security

[http://forge.fi-ware.eu/plugins/mediawiki/wiki/fiware/index.php/FI-WARE\\_Architecture](http://forge.fi-ware.eu/plugins/mediawiki/wiki/fiware/index.php/FI-WARE_Architecture)





Business Apps running on the Flspace platform

**Flspace Platform**


**Baseline Apps** (*Common functions*)

- “Product Information Service”
- “Real-time Exception Detection & Handling” (Compliance Checks & Mitigations)
- “Business Service Relationship & Contract Management”
- “Logistics Planning”

**Domain Apps** (*Specific functions*)

- To be specified and developed according to requirements of the trials

Apps can be “mashed up” and integrated into the companies’ workflows



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