Commercial risk management: 
The European System

Caroline Mantl
One Day of Traffic in Europe
Role of air traffic management?

- To prevent traffic collision in the air and on the ground

- To manage traffic in an orderly and efficient way

- “ATM is the aggregation of ground based and airborne functions required to ensure the safe and efficient movement of aircraft during all phases of operations"
Aviation operations; where we fit

- 1377 Aircraft Operators
- 75 en-route centres
- 1 Network Manager

Supporting approximately 9.5 Million flights/year
Safety assessment steps

- What can go wrong?
- What effect can it have?
- How likely is it to happen?
- Is the risk acceptable?
- What needs to be done about it?
- Risk Monitoring

Risk assessment → Risk mitigation
A GNSS Legal and Institutional Framework
Solution in search of a Problem?

- Multiple providers, extra territorial ownership and control, multi-purpose and multi-modal
- Most States will not be involved in the operation of GNSS
- Relying on and responsible for facilities outside their control
- 39+ responsible States in Eurocontrol
GNSS Liability - the parties involved
Current EGNOS framework: “une usine à gaz”

- EC (owner & manager)
- ESA (design & evolutions)
- GEOs operators
- Thales
- ESSP Operator and certified SP
- Major ANSPs (operating ground segment)
- ECAC ANSPs (procedures)
- French NSA (certification)
- GSA (marketing)
- EUROCONTROL
- Airspace users
### EGNOS is operational

<table>
<thead>
<tr>
<th>Country</th>
<th>Procedures Status</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Spain</td>
<td>Planned 2012+</td>
<td>14 procedures in 10 airports already designed.</td>
</tr>
<tr>
<td>Italy</td>
<td>Under Review</td>
<td>2 procedures designed. 4 planned in 2011</td>
</tr>
<tr>
<td>Switzerland</td>
<td>Planned</td>
<td>Procedures for Heliports and 2 in regional airfields.</td>
</tr>
<tr>
<td>UK</td>
<td>Planned</td>
<td>1 procedure designed. 1 in progress. 3 planned.</td>
</tr>
<tr>
<td>Poland</td>
<td>Planned</td>
<td>2 procedures</td>
</tr>
<tr>
<td>Portugal</td>
<td>Planned</td>
<td>1 procedure designed.</td>
</tr>
<tr>
<td>Norway</td>
<td>Planned</td>
<td>Heliports and regional airports</td>
</tr>
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<td>Germany</td>
<td>Planned</td>
<td>Procedures for Heliports</td>
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</tbody>
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What should we do?

• Continue the status quo
• New Legislation in Europe
• GNSS Convention – Global solution?
• Another solution?