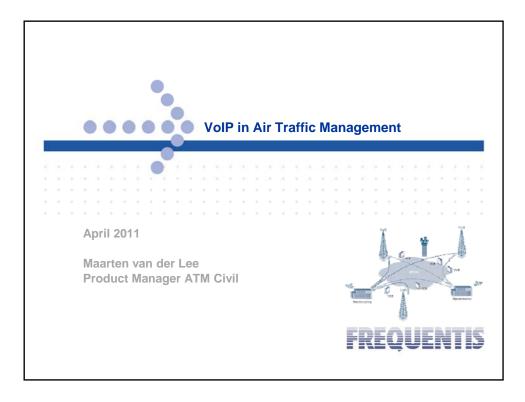
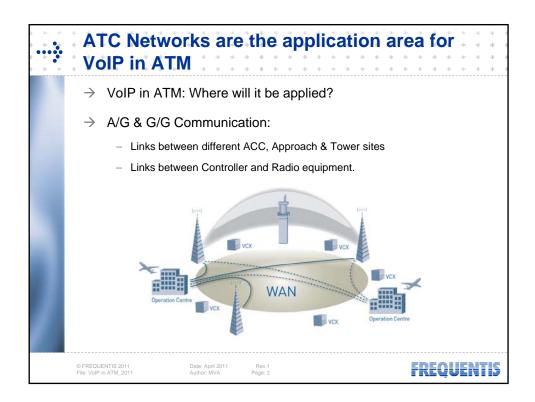
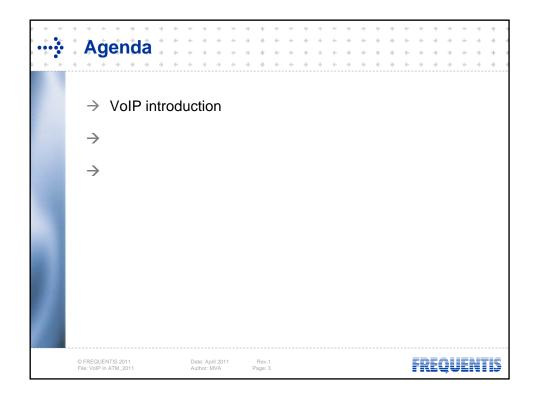
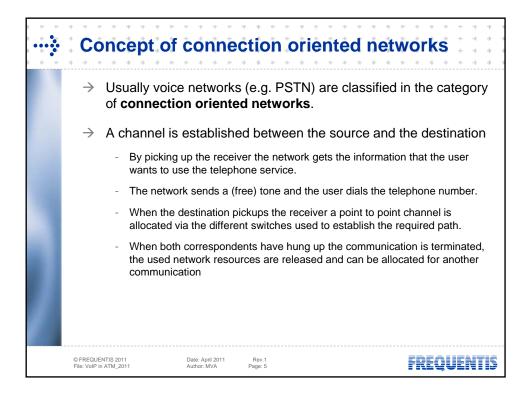
ATNICG/6 - SP/3

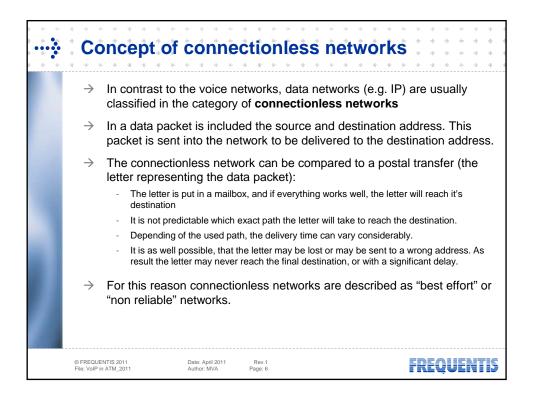


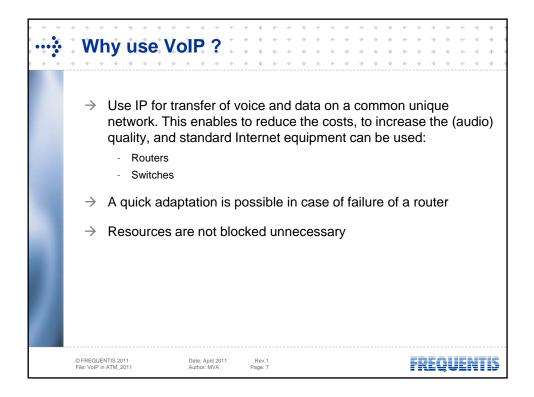


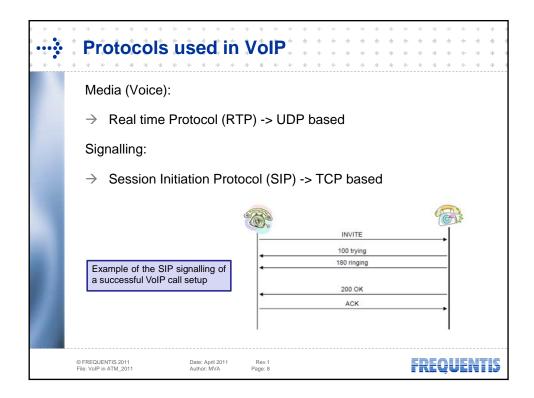


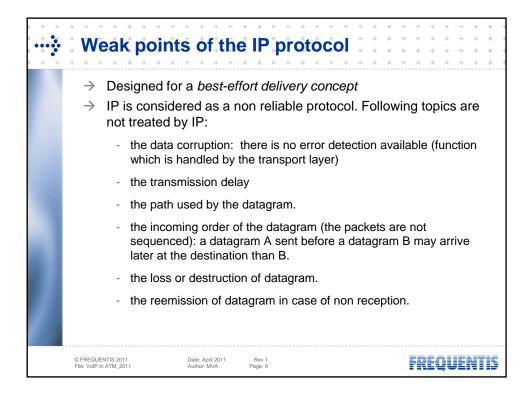
| Int                          | roduc                              | tion      |                               | + + + + | 9 9 9<br>9 9<br>9 9<br>9 9 |      | * * * | * * *<br>* * | * * * * | * *  | * * * * | * * * * | * * * * | * *<br>* *<br>* * |     | * * * * | ~ ~ ~ ~ | * * * * |
|------------------------------|------------------------------------|-----------|-------------------------------|---------|----------------------------|------|-------|--------------|---------|------|---------|---------|---------|-------------------|-----|---------|---------|---------|
| -                            | VoIP mea<br>audio da               |           |                               | - · · · |                            |      |       |              |         | m of | V       | olP     | is t    | o tr              | ans | mit     |         |         |
|                              | The VoIF<br>networks<br>networks   | (PSTI     | N, Pub                        | lic S   | Switc                      | hed  |       |              |         |      |         |         |         |                   |     | lata    | à       |         |
|                              | This com<br>different<br>from this | person    |                               |         |                            |      |       |              |         |      |         |         |         |                   |     |         | t       |         |
|                              | As you m<br>successf<br>each per   | ul, it is |                               |         |                            | •    |       |              |         |      |         |         |         |                   |     | f       |         |         |
| $\rightarrow$                | The sam                            | e rule a  | applie                        | s foi   | the                        | marı | iage  | e be         | etwe    | een  | voi     | ce a    | and     | dat               | ta. |         |         |         |
| © FREQUEN<br>File: VolP in J |                                    |           | Date: April 20<br>Author: MVA | 11      | Rev.<br>Page:              |      |       |              |         |      |         |         |         | RE                | Ql  | JE      | NT      | S       |

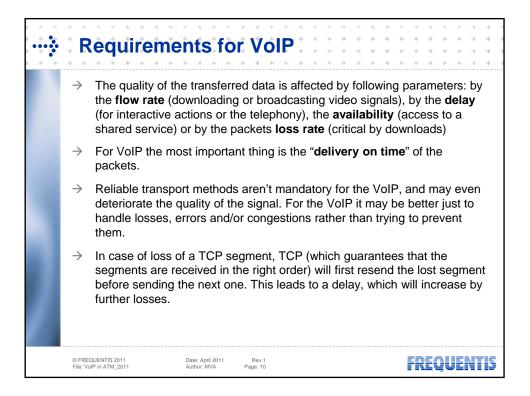


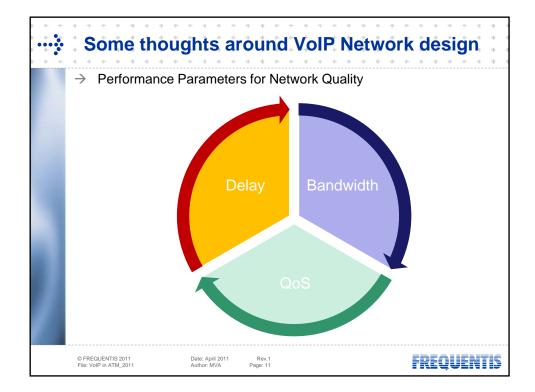


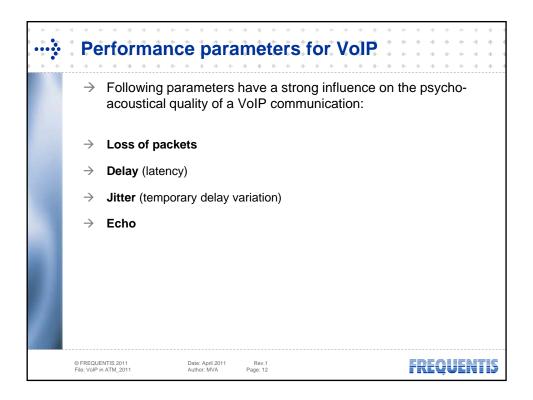


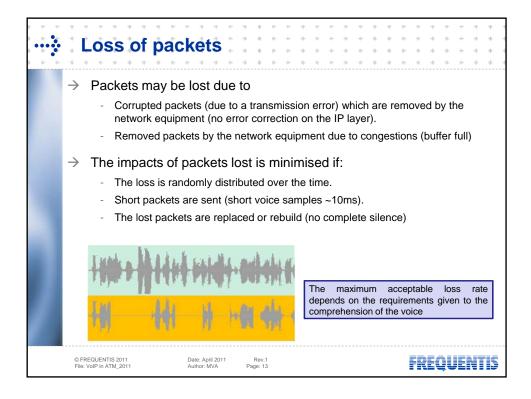




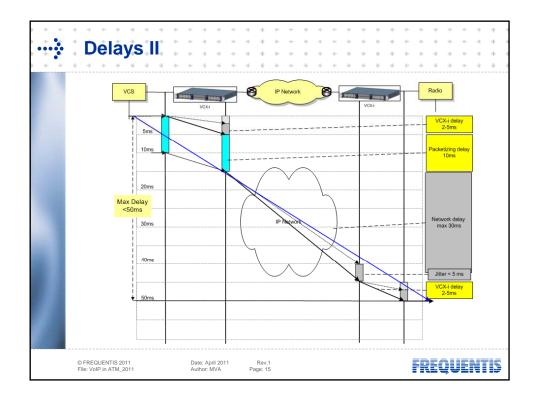


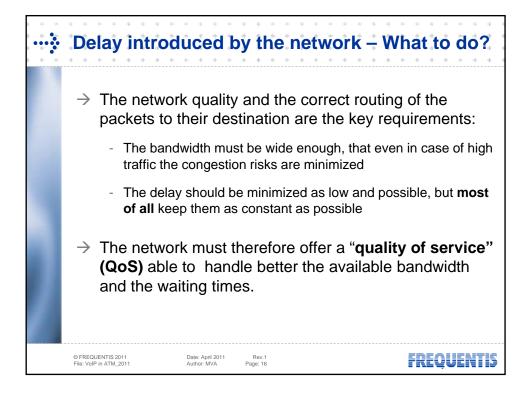


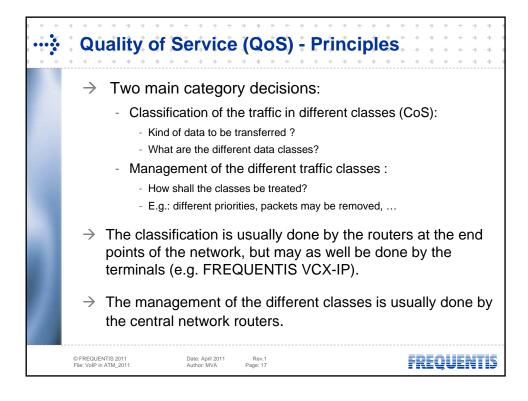




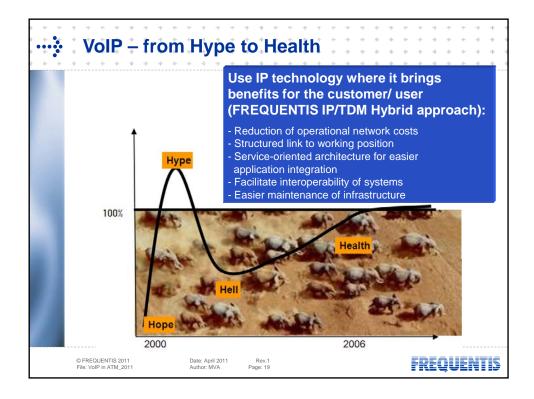
| ;- | DelaysI   |
|----|---|
|    | <ul> <li>→ Delays (static and variable) are generated over all the transportation path :         <ul> <li>At the sender the static delays are generated by:                 <ul> <li>Packetizing (size of the audio samples influence delay).</li> <li>Eventually compression (usually time intensive algorithms).</li> <li>In the network the variable delays are generated by :</li></ul></li></ul></li></ul> |
|    | <ul> <li>ITU considers that a delay of :</li> <li>0-150ms corresponds to a good quality communication</li> <li>150-400ms corresponds to an acceptable quality communication</li> </ul>  |
|    | © FREQUENTIS 2011 Date: April 2011 Rev.1<br>File: VolP in ATM_2011 Author: MVA Page: 14   |

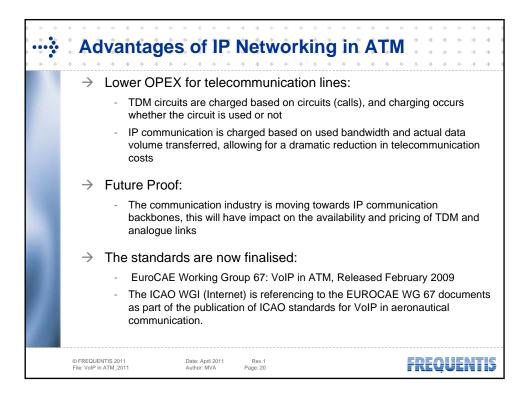


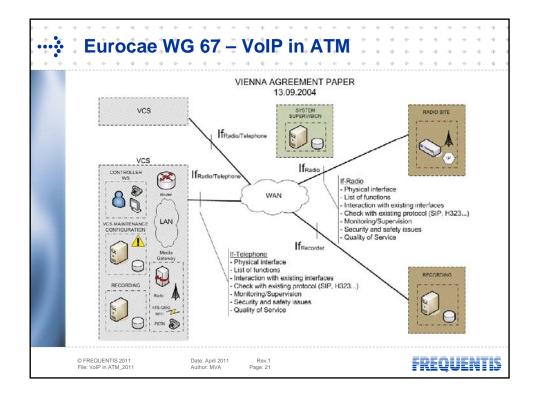


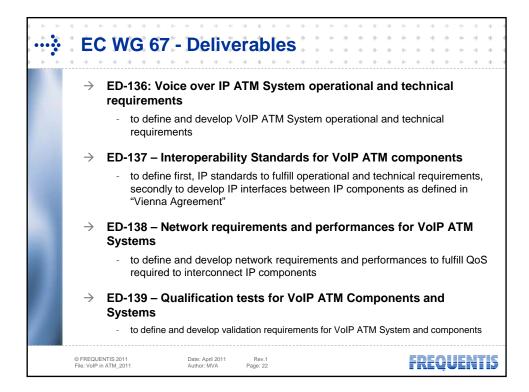


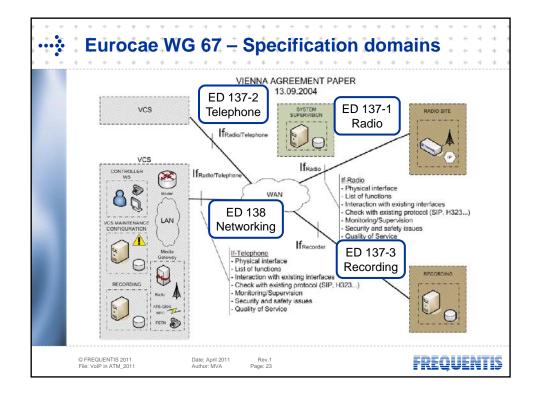


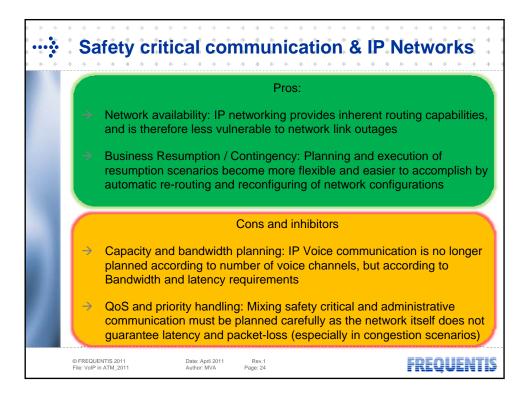


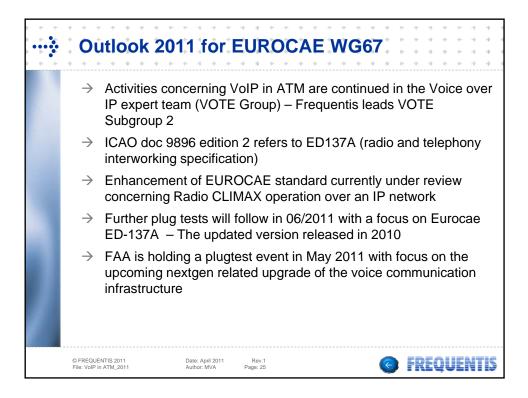


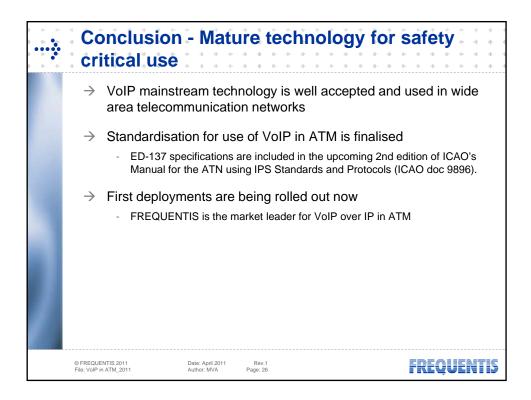




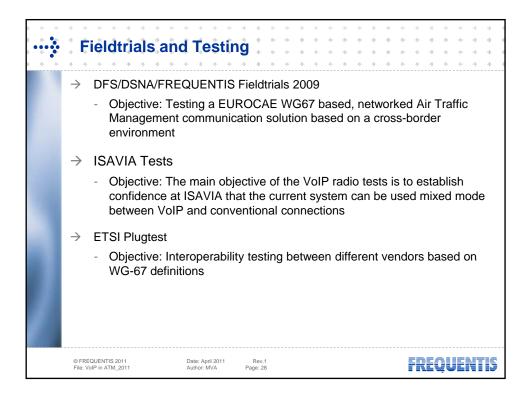


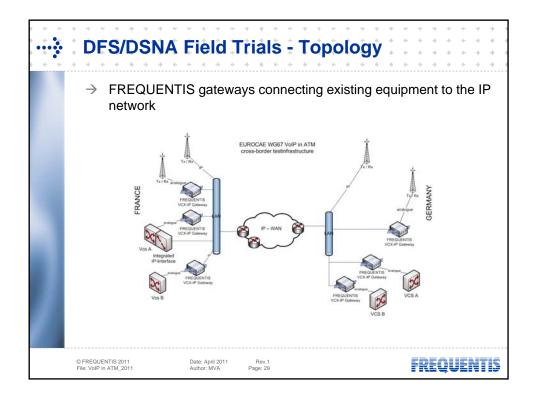


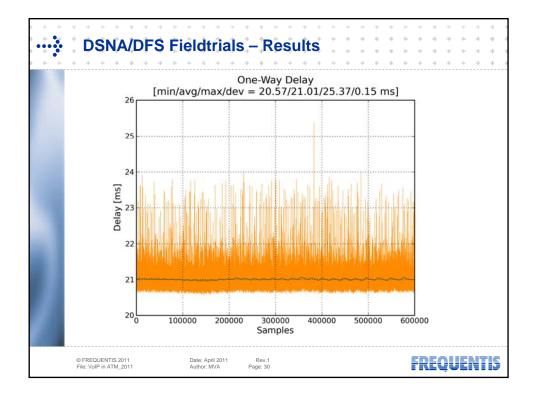


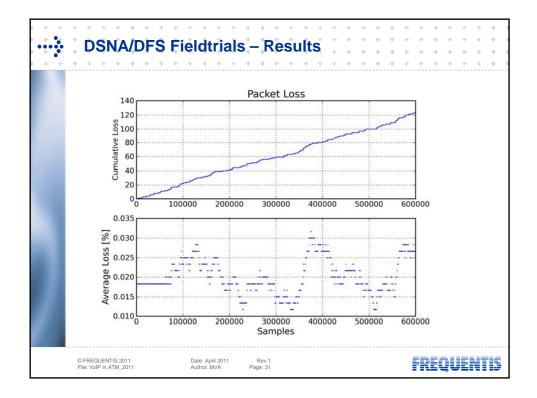


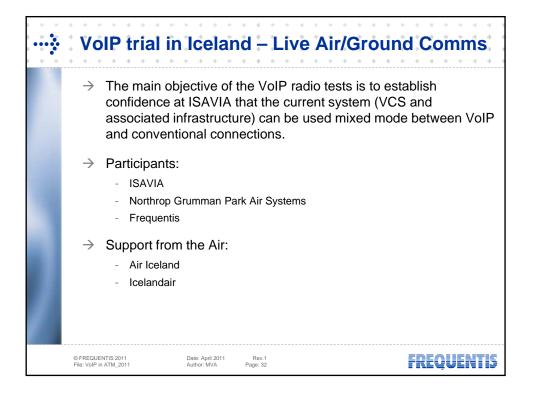


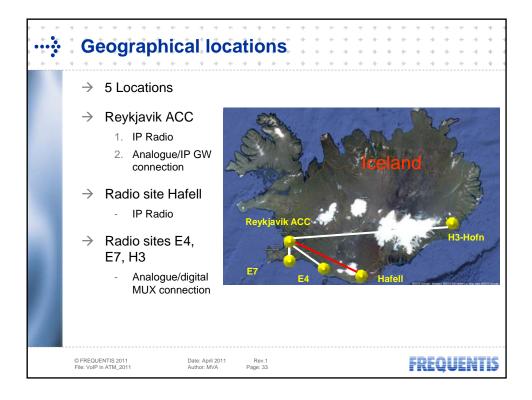


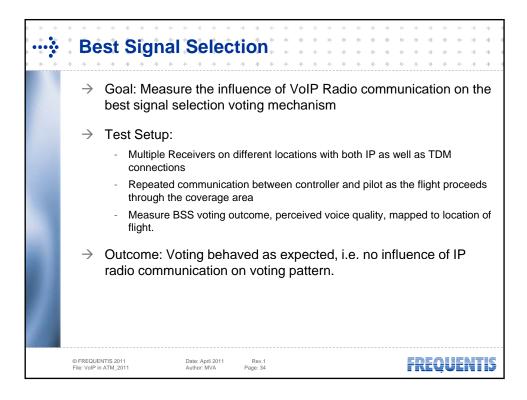


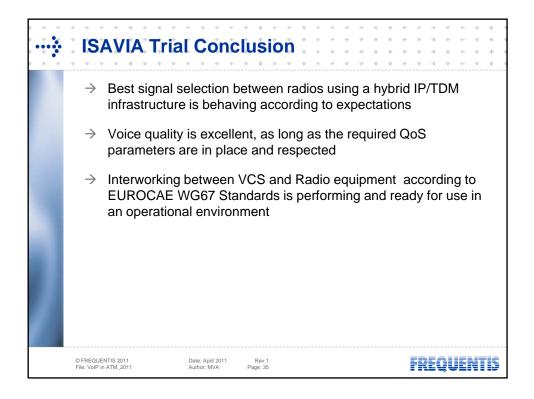


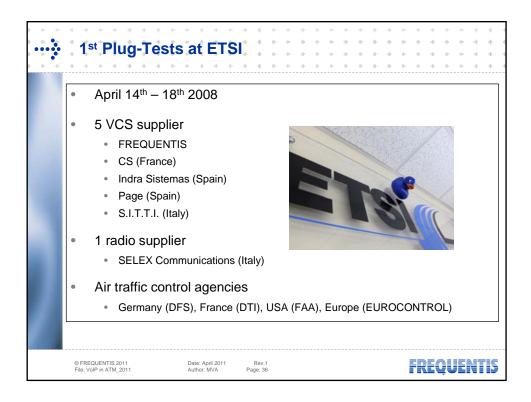




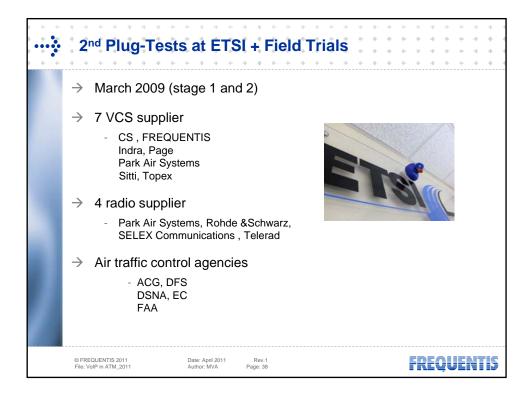








| $\rightarrow$ | Phase 1 V              | CS-VCS   | 6          |            |                 |             |                |
|---------------|------------------------|--|------------|------------|-----------------|-------------|----------------|
|               |                        | C  | Overall    | Result     | ts              |             |                |
|               | Interoperal            | -  | lot Exe    | cuted      | Totals          |             |                |
|               | OK N                   | 10   | IA         | ОТ         | Run             | Results     |                |
|               | 103<br>(94.5%) (       | And a state of the | 1<br>9.2%) | 0<br>(0.0% | 109<br>) (90.8% | () 120      |                |
| $\rightarrow$ | Phase 1 \/             | CS-GR  | 2          |            |                 |             |                |
| $\rightarrow$ | Phase 1 V<br>Overall R |  | 6          |            |                 |             |                |
| $\rightarrow$ |                        | esults   |            | ot Exe     | ecuted          | Tota        | als            |
| $\rightarrow$ | Overall R              | esults   |            | ot Exe     | ecuted<br>OT    | Tota<br>Run | als<br>Results |
| $\rightarrow$ | Overall R<br>Interope  | esults<br>erability  |            |            |                 |             | 1              |



| $\rightarrow$ | Phase 2 V                             | CS-VCS                             |            |              |              |         |
|---------------|---------------------------------------|------------------------------------|------------|--------------|--------------|---------|
|               | Overall Res                           | sults                              |            |              |              |         |
|               | Interope                              | erability                          | Not E      | xecuted      | Tota         | als     |
|               | OK                                    | NO                                 | NA         | OT           | Run          | Resul   |
|               | 423 (95.7%                            | ) 19 (4.3%                         | ) 0 (0.0%) | 38 (7.9%)    | 442 (92.1%   | 6) 480  |
|               | Total:                                | 442                                |            |              |              |         |
| $\rightarrow$ | Phase 2 V                             |                                    |            |              |              |         |
| $\rightarrow$ |                                       | CS-GRS                             |            |              |              |         |
| $\rightarrow$ | Phase 2 V                             | CS-GRS                             | Not Ex     | ecuted       | Total        | s       |
| $\rightarrow$ | Phase 2 V<br>Overall Res              | CS-GRS                             | Not Ex     | ecuted<br>OT | Total<br>Run |         |
| $\rightarrow$ | Phase 2 V<br>Overall Res<br>Interoper | /CS-GRS<br>sults<br>rability<br>NO | NA         | OT           |              | Results |

