Future Content Networks
Breakout Session

T. Zahariadis  J-D. Meunier  N. Niebert  P. Daras  D. Williams  J. Bouwen
Synelixis  Thomson  Ericsson  CERTH/ITI  BT  Alcatel-Lucent
What will Future Internet Bring?
(Mobility)
What will Future Internet Bring?
(New Methods of Collaboration/Social Networking)
What will Future Internet Bring?
(New Media)
How will Future Internet be?

Is this enough?
Content-Centric Internet Architecture

- Service/Media
  - Information/Adaptation
    - Content
      - Infrastructure

Security/Privacy

Protects

Is Used

Is Used

Is Used

Is Extracted

Is Used

Supports
Beyond FCN Evolution…

“Content Objects”

**Object**

- **Media**
- **Rules**
- **Behaviour**
- **Relations**
- **Characteristics**

**Content Object**

- Anything that a human can perceive with his senses (a speaking person, a violin, a tear on your cheek, etc.)

**Environment -> Object**

- (Discovered, retrieved, casted, adapted, delivered, transformed, presented)

**Object -> Environment**

- Live 3D video stream of Versailles chateau
- Interpolated stream from camera array

**Object <-> Objects**

- (Refer to time, space, synchronisation issues)

**Meaningful description of the object.**

**Example:**

- Flower made by Jeff from 3D scan
- Live 3D video stream of Versailles chateau
- Interpolated stream from camera array
- Media: String quartet remix by DJ Tamino from IKEA.com
- Stylish clothes from clothesmodels.com
- Meaningful description of the object.
FCN mapping to Content Object

- **Service/Media**
  - Is Used
  - Protects

- **Information/Adaptation**
  - Is Used
  - Is Extracted

- **Content**
  - Supports

- **Infrastructure**
  - Supports

- **Security/Privacy**

- **Object**
  - Media
  - Rules
  - Behaviour
  - Relations
  - Characteristics
... and to a conceptual architecture
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Notes</th>
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</thead>
<tbody>
<tr>
<td>11:30-11:35</td>
<td>Welcome and BO Session goals.</td>
<td>Distribution forms to define the content of the mini-groups that will start working at 15:30. Theodore Zahariadis, Synelixis</td>
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<tr>
<td>11:35-11:55</td>
<td>Keynote Speech</td>
<td>“Content king? We are not quite there”</td>
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<tr>
<td>~15 min talk</td>
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<tr>
<td>~05 min Q&amp;A</td>
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<tr>
<td>11:55-12:15</td>
<td>Keynote Speech</td>
<td>“Future Media Internet: Multimedia Content Search Challenges”</td>
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<tr>
<td>~15 min talk</td>
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<tr>
<td>~05 min Q&amp;A</td>
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<tr>
<td>12:15-13:30</td>
<td>“Incremental Scenarios &amp; Challenges”</td>
<td>Doug Williams, BT (15 min.)</td>
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<tr>
<td></td>
<td>“Visionary Scenarios &amp; Challenges”</td>
<td>Petros Daras, CERTH/ITI (15 min.)</td>
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<td>Round table discussion on scenarios</td>
<td>Chair: Jean-Dominique Meunier, Thomson</td>
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<tr>
<td>Time</td>
<td>Event</td>
<td>Details</td>
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<td>14:30-14:50</td>
<td><strong>Keynote Speech</strong></td>
<td>“Content-Centric Internet Architecture” Position Paper</td>
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<td><strong>Norbert Niebert, Ericsson</strong></td>
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<td>14:50 – 15:30</td>
<td><strong>Is the Future Internet Content Centric?</strong></td>
<td><strong>Open discussion</strong></td>
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<td>Panel: Th. Zahariadis, P. Daras, I. Kegel, N. Niebert, J-D Meunier</td>
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<td>15:30-16:00</td>
<td><strong>Mini-Group 1:</strong> Title and content to be defined by the participants</td>
<td><strong>Mini-Group 2:</strong> Title and content to be defined by the participants</td>
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<td>Chair: Jean-Dominique Meunier, Thomson</td>
<td>Chair: Petros Daras, CERTH/ITI</td>
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<td>16:00-16:15</td>
<td><strong>Coffee Break</strong></td>
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<td>16:15-17:15</td>
<td><strong>Mini-Group 1. Cont.</strong></td>
<td><strong>Mini-Group 2. Cont.</strong></td>
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<td>17:15 – 18:15</td>
<td><strong>Presentations of Mini-Group 1 Results/Considerations</strong> (15 min.)</td>
<td><strong>Panel: representatives of the two mini-groups</strong></td>
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<td><strong>Presentations of Mini-Group 2 Results/Considerations</strong> (15 min.)</td>
<td>Chair: Doug Williams, BT</td>
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<td>Round Table Discussion (30 min.)</td>
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<td>18:15-18:30</td>
<td><strong>BO conclusions &amp; Future plans</strong></td>
<td><strong>Theodore Zahariadis, Synelixis</strong></td>
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FCN Menu will be served…
Today 11:30 @ Room TYCHO

Note:
The FCN logo is surrounded by the crystal structure of the water, the following two the metaphors
A) life was born in the water
B) Future Internet may be based on the proposed Autonomic Layer-less Object Architecture (ALLOA)