Multi-conference rooms: architectural and technological view

Ubuntunet Connect 2015

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Summary

- Multipurpose rooms
- Physical view of the solution
- Technological view of the solution
The problem

- Many Institutions let a dedicated room only to videoconferences, and its use is sparse mainly because the physical space is not flexible enough to cope with different needs.
- That means cost
Cost of a room

• The cost of a room is direct proportional to its utilization.

• For example, a u$ 100,000.00 room can cost more than a u$ 500,000.00. How? Just let the first with little use and the second highly used.
The proposal

• To present an architectural and technological view for a multipurpose room.
Physical view of the proposed room
Model “Classroom”
(24 students)
Group Dynamic
(24 students)
Board meeting
(24+2 members)
Telepresence
(4+4 participants)
Other profiles

• Tele monitoring
• etc
Technological view of the proposed room
Multipresence system

- **Objective**: creation of a videoconference system that allows interoperation of many technologies to comply with a multitude of devices and communication standards

- The project integrates:
  - Telepresence room in high definition (Full HD).
  - Ultra-telepresence room in ultra-high definition (UHD 4K).
  - Videoconferencing systems (Polycom, Cisco, and others).
  - High definition videoconferencing.
  - Integration with Web conferencing (web browser), Mobile devices, SIP phones.
  - Collaboration and content exchange
1. Modular architecture
2. Scalable
3. Low cost
4. High usability
Panel models

Asymmetric panel

Symmetric panel
Demonstration during Forum RNP (ago/15)
Ultra High Definition
High Definition - 1080p
Web conference and mobile
Control interface integrated to SAGE 2
Layout change interface (10 seconds to change layout)
Project video
(English subtitles)

https://youtu.be/lud2KwzstCM
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