

# 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

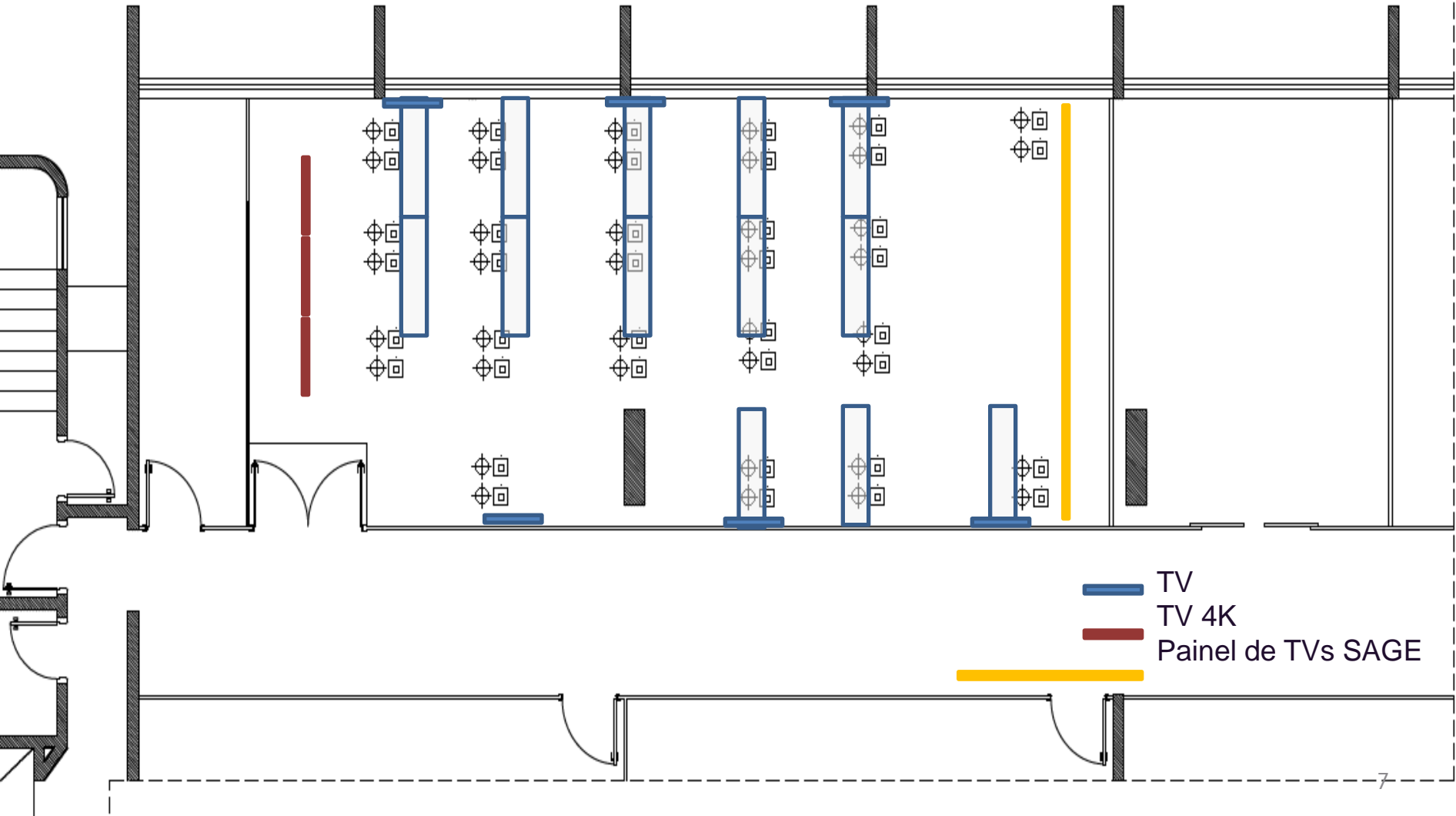
- To present an architectural and technological view for a multipurpose room.



# Physical view of the proposed room

# Model "Classroom" (24 students)

⊕	Elétrica
⊞	Dados



# Sala Multiuso

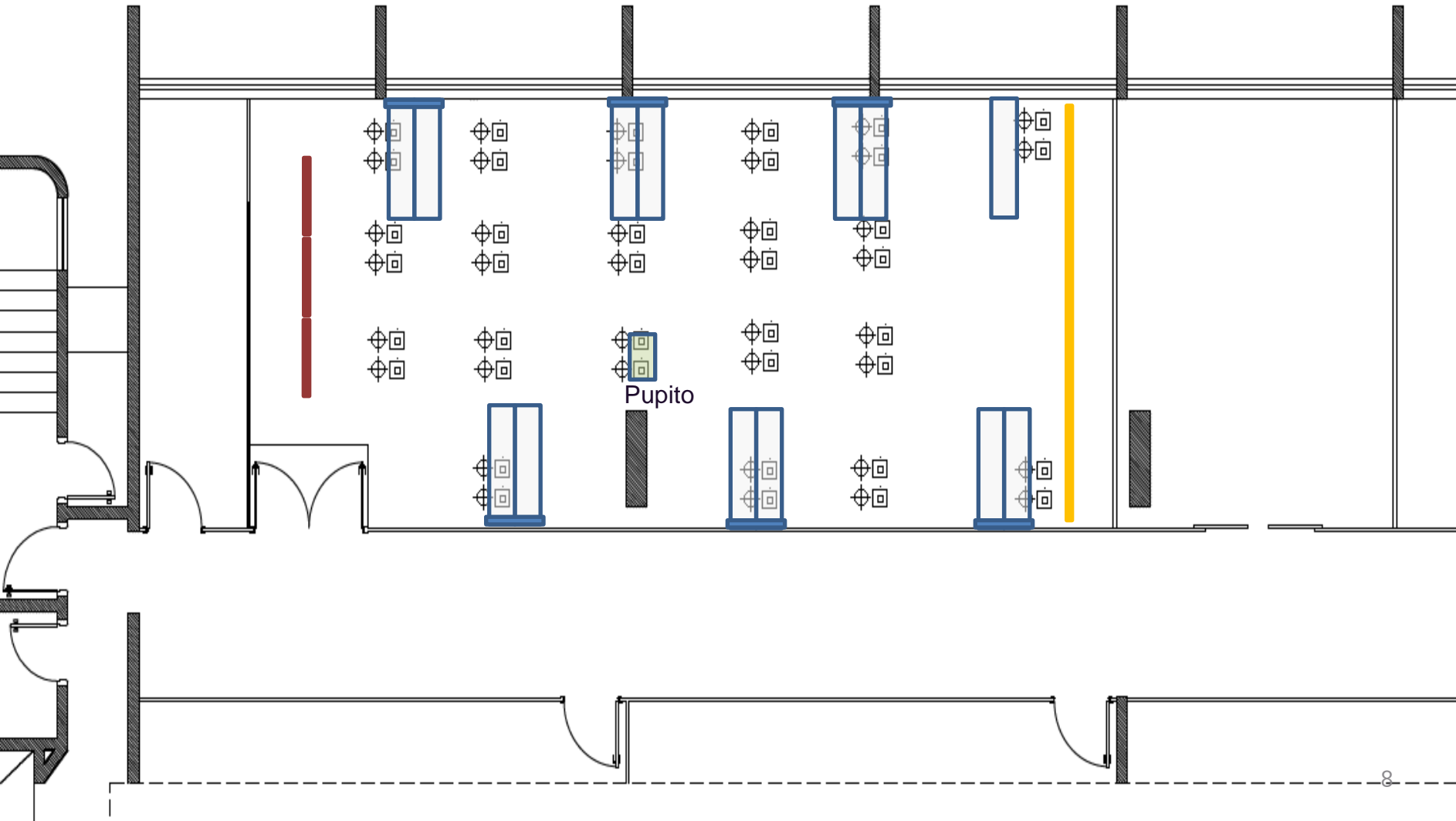
Aprovado em 18/08/2014

# Group Dynamic (24 students)

Legenda

⊕ Elétrica

⊞ Dados



# Sala Multiuso

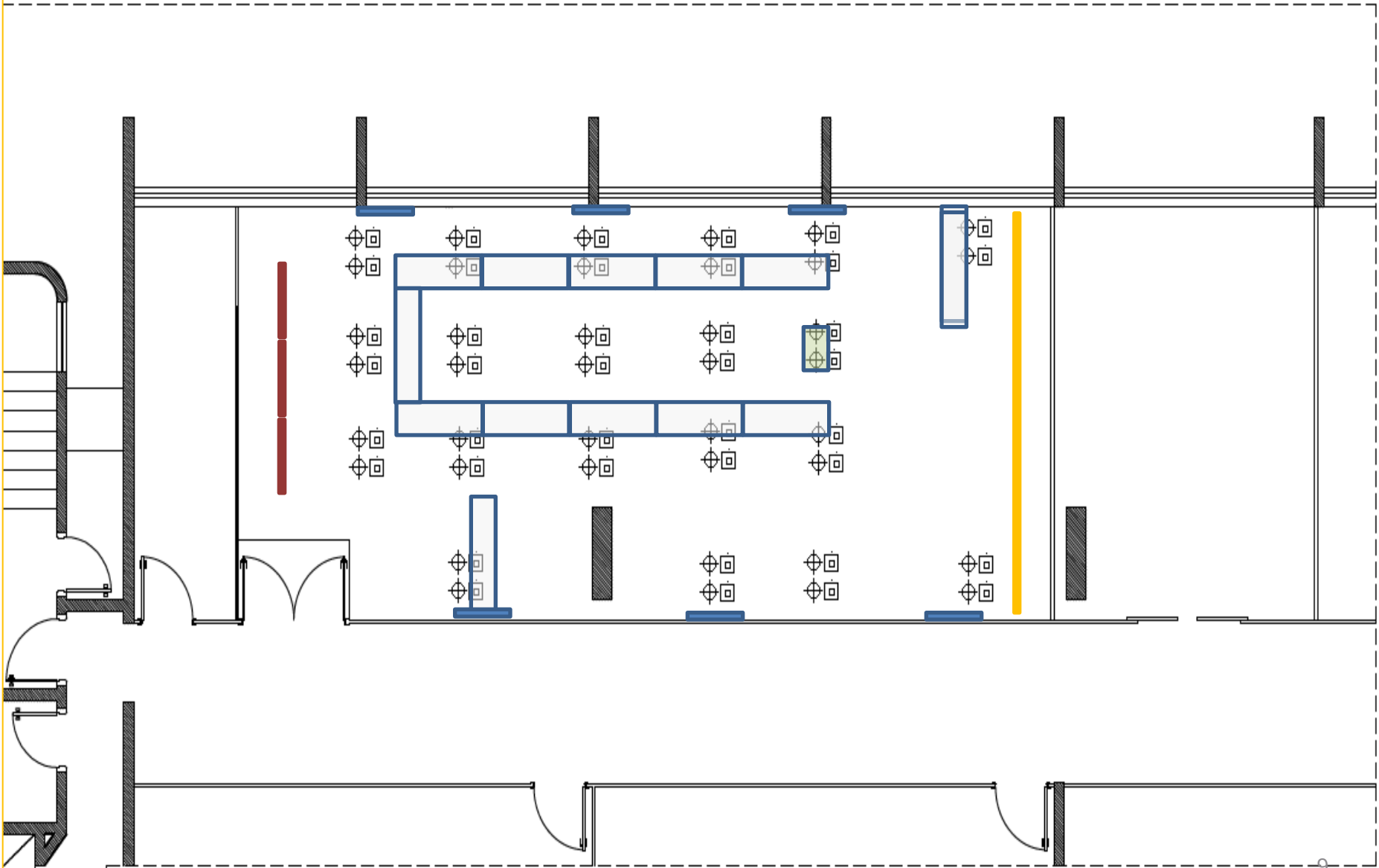
Aprovado em 18/08/2014

## “U” Meeting (22+2 participants)

Legenda

⊕ Elétrica

⊞ Dados



# Sala Multiuso

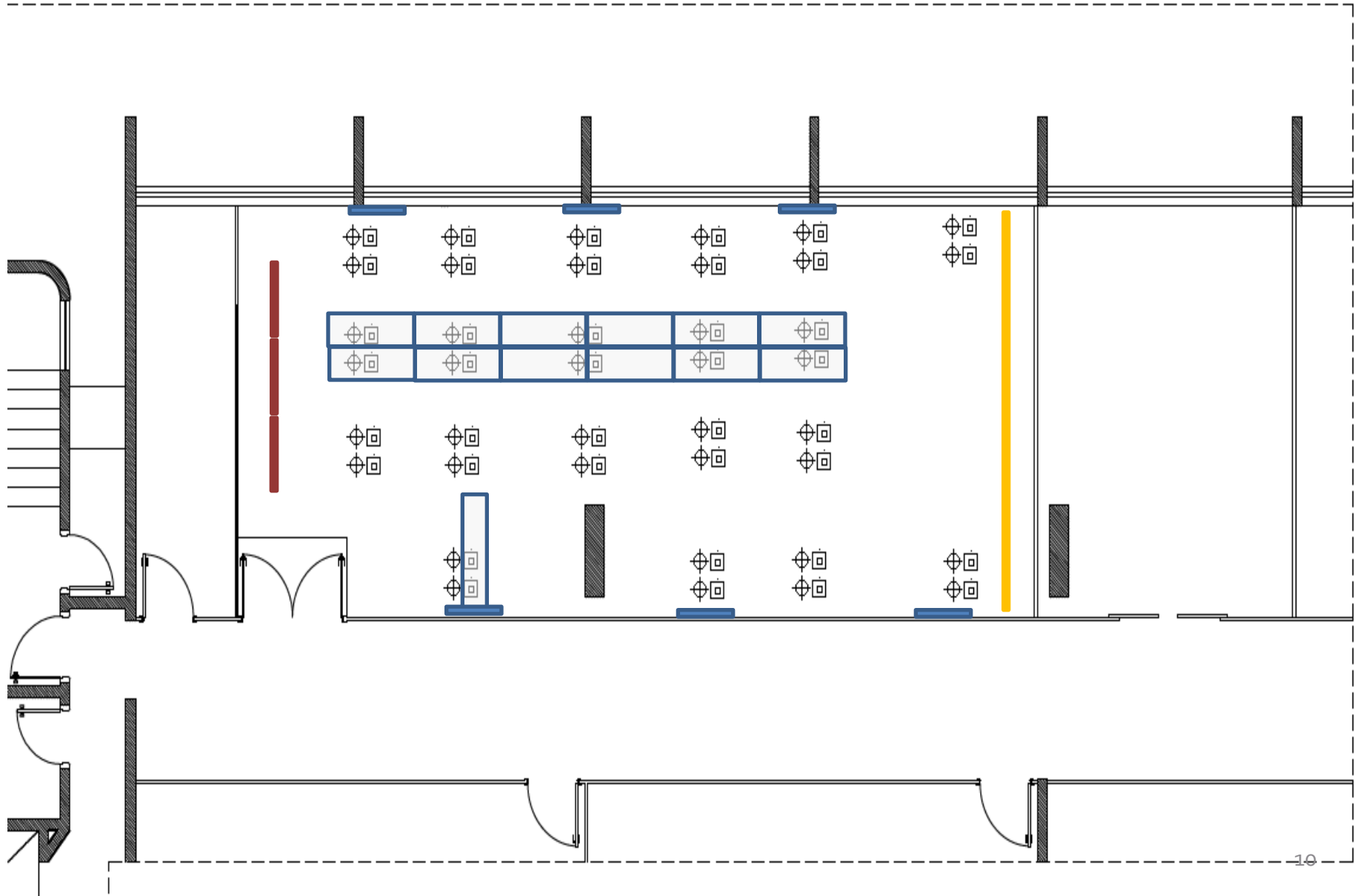
Aprovado em 18/08/2014

## Board meeting (24+2 members)

Legenda

⊕ Elétrica

⊞ Dados



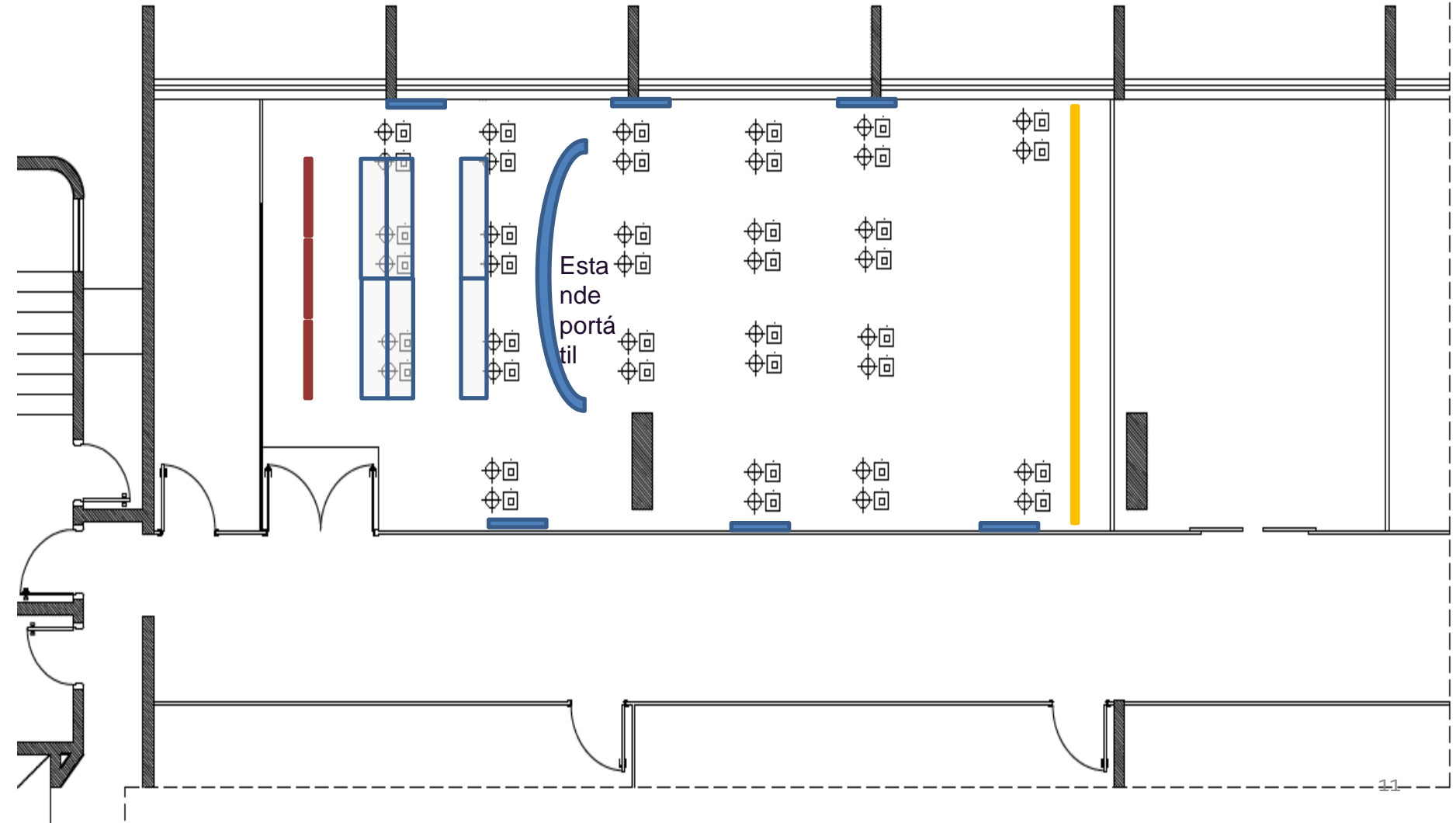
# Sala Multiuso

Aprovado em 18/08/2014

# Telepresence (4+4 participants)

Legenda

- ⊕ Elétrica
- Dados



# 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

# Characteristics

1. Modular architecture
2. Scalable
3. Low cost
4. High usability

# Panel models



Asymmetric panel

Symmetric panel

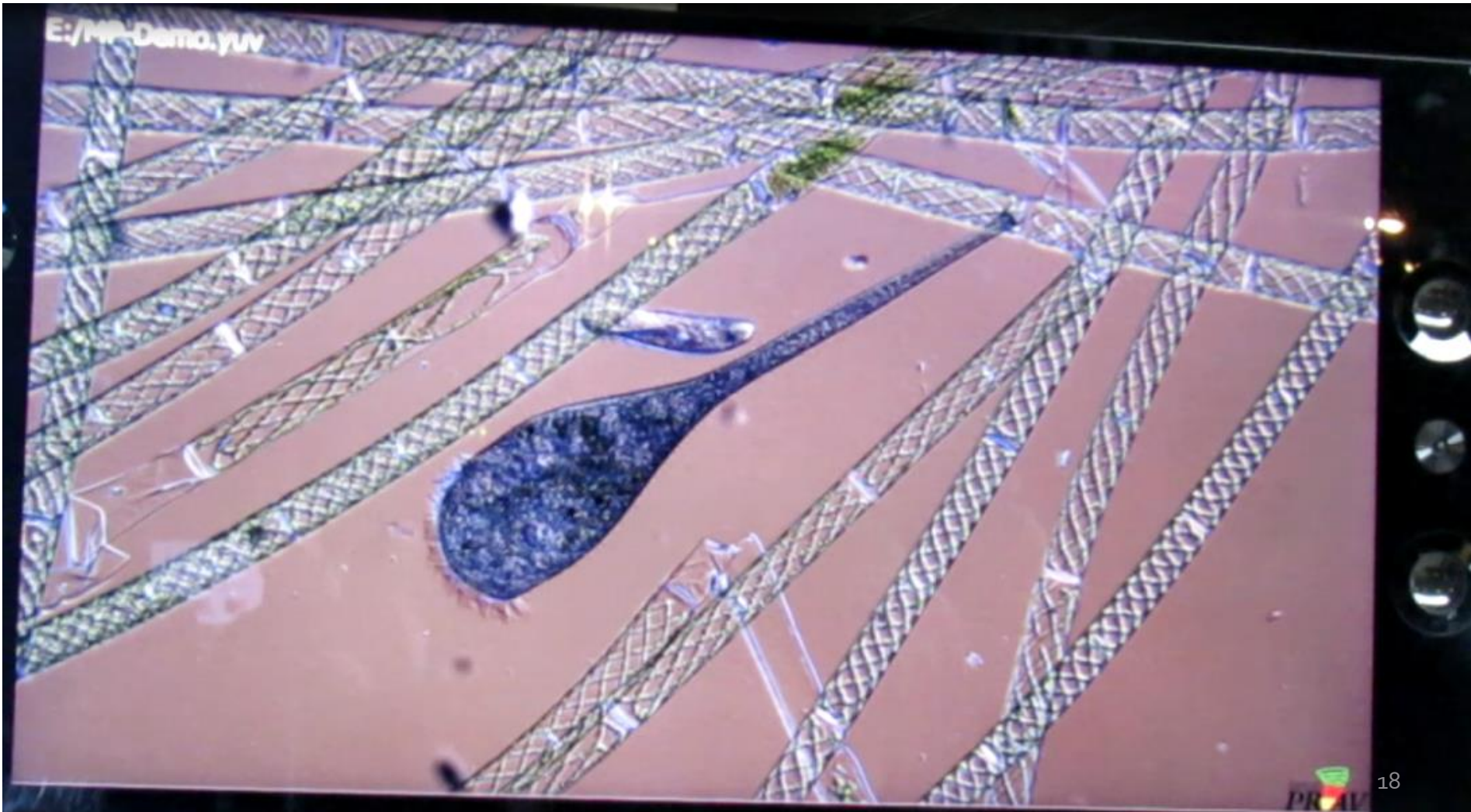
Recepção  
4K



# Demonstration during Forum RNP (ago/15)



# Ultra High Definition



# High Definition - 1080p



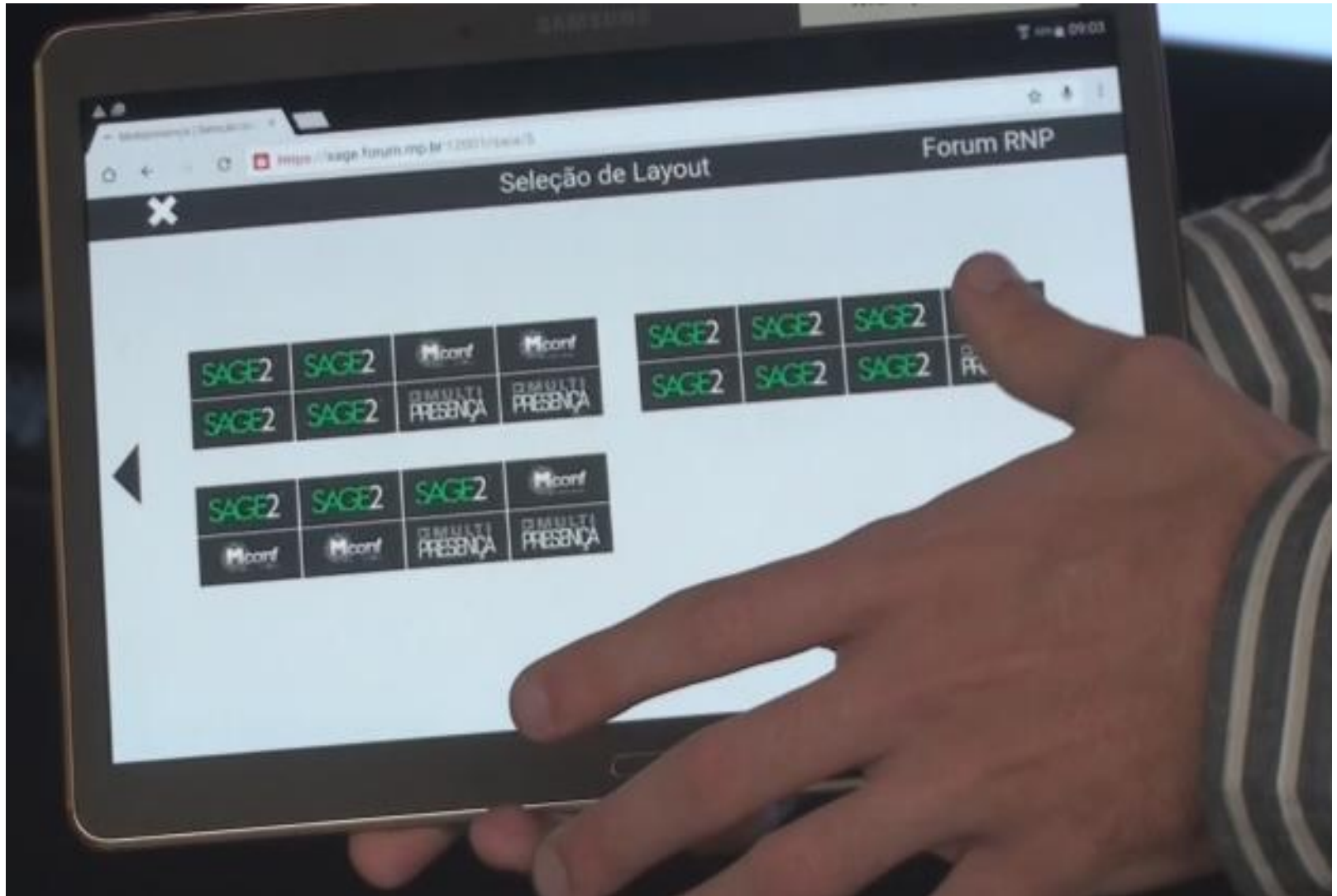
# Web conference and mobile



# Control interface integrated to SAGE2



# Layout change interface (10 seconds to change layout)



# **Project video (English subtitles)**

<https://youtu.be/lud2KwzstCM>

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**Thank you. Questions?**

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