



WEBRTC 2016 @ FCT | FCCN

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WebRTC Proofs of concept



- WebTUT
- Speedmeter
- Multi-stream Video-on-demand
- Multi-screen Multi-point Videoconference

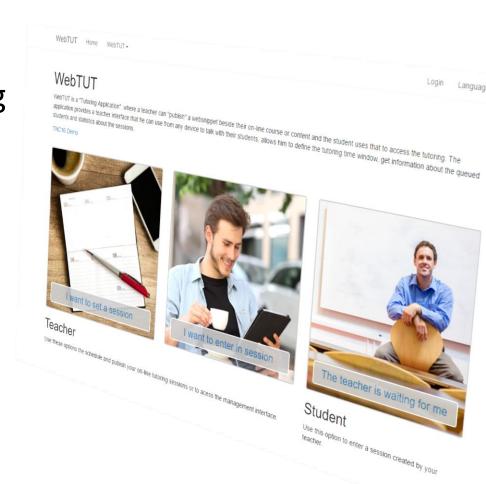
WEBRTC@FCT|FCCN





WebTUT

- Point2point vídeo tutoring
- GEANT Use Case
- eduGAIN
- Multi-language
- Features:
 - GEANT CoTURN Service
 - Callstats.io
 - Video & Chat
- Production (but not publicized)







WEBRTC Speedmeter

- Client2Server bandwidth test
- Application test, not "hard" bandwidth test
- Features:
 - Websockets & Datachannel
 - GEANT CoTURN Service
- In development







Multi-stream Video-on-demand

- Event streaming with recording and playback platform
- Features:
 - Self-service management
 - Multi-stream in-sync live, recording and playback
 - GEANT CoTURN Service
 - Server side recording
 - Integration with Lecture recording system (educast)
- Ready to test

- Server: Janus Gateway
- Any WebRTC browser can stream, even phones and tablets
- Layout auto-adjustment to stream count at a given time
- 2 x 4 months development (undergratudate IT students)





Multi-stream Video-on-demand

https://webrtc-hub.fccn.pt:8181/webrtc-streaming/



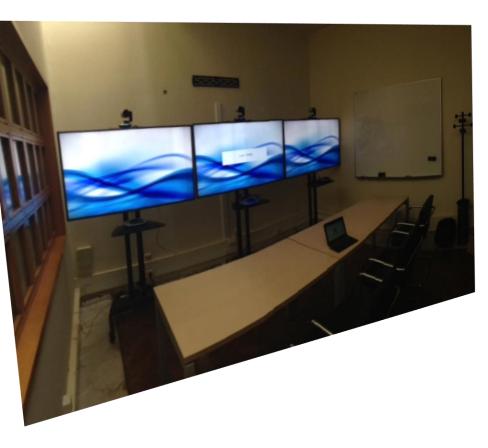


















- Telepresence like multi-point Videoconference System
- Features:
 - Multi-point with geometry awareness and layout auto adjust
 - Serverside recording (future integration)
 - Tablet/Phone WebApp for room Management
 - GEANT CoTURN Service
 - Instant join for single screen users
- Ready to test

- Server: Janus Gateway + PeerJS
- Standard (off-the-shelf) equipment
 - ~ 3000€ per module
- 2 x 4 months development (undergratudate IT students)
- ... 6 months development for final tweaks





https://webrtc-hub.fccn.pt:8091/webrtc-immersive/







Conclusion

- Tested different use cases
- Students are great!
- WEBRTC is "easy" and fast to develop new concepts

Join us!