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MALMÖ ACADEMY OF MUSIC Lund University • Sweden

Dragan Buvač Music Production & Music Management

Sara Wilén Mezzo Soprano & Artistic Researcher







MALMOAGADEWYOFWUSG LUNDUNVERSITY - SWEDEN

Low Latency

Low Latency AV duplex streaming system







LIND INVERSITY - SWED

Low Latency

Low Latency AV duplex streaming system





Co-operation between University network services such as GÉANT



I INNINFRSITY - SWF

Low Latency

Low Latency AV duplex streaming system **Conservatorio di Musica Giuseppe Tartini (Trieste/Italy) GARR - the Italian Research and Academic Network in 2005**



- **Co-operation between University network services such as GÉANT**



MALMÖACADEMY OF MUSIC Lund University - Sweden

Main goals





INDINVERSITY - SWEDEN

Main goals



High quality Audio & Video transmission - Teacher/Student/Masterclass



I INNIVERSITY - SWED

Main goals



High quality Audio & Video transmission - Teacher/Student/Masterclass **Digital competence development for teachers and other staff**



LINDINVERSITY - SWEI

Main goals

Digital competence development for teachers and other staff

Collaborative artistic developement and research



- High quality Audio & Video transmission Teacher/Student/Masterclass



LINDINVERSITY-SWEI

Main goals

Digital competence development for teachers and other staff

Collaborative artistic developement and research

Competence supply of highest level of teachers



- High quality Audio & Video transmission Teacher/Student/Masterclass



LUNDUNVERSITY - SWEDEN

Main goals

Digital competence development for teachers and other staff

Collaborative artistic developement and research

Competence supply of highest level of teachers

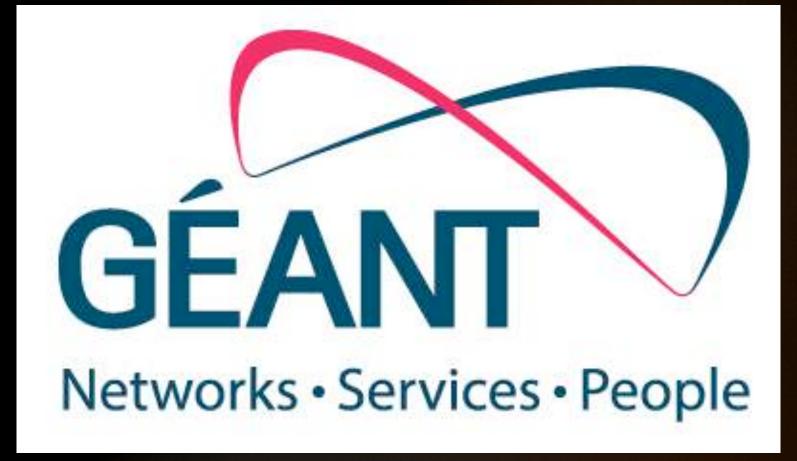
Remote concert and performance collaborations



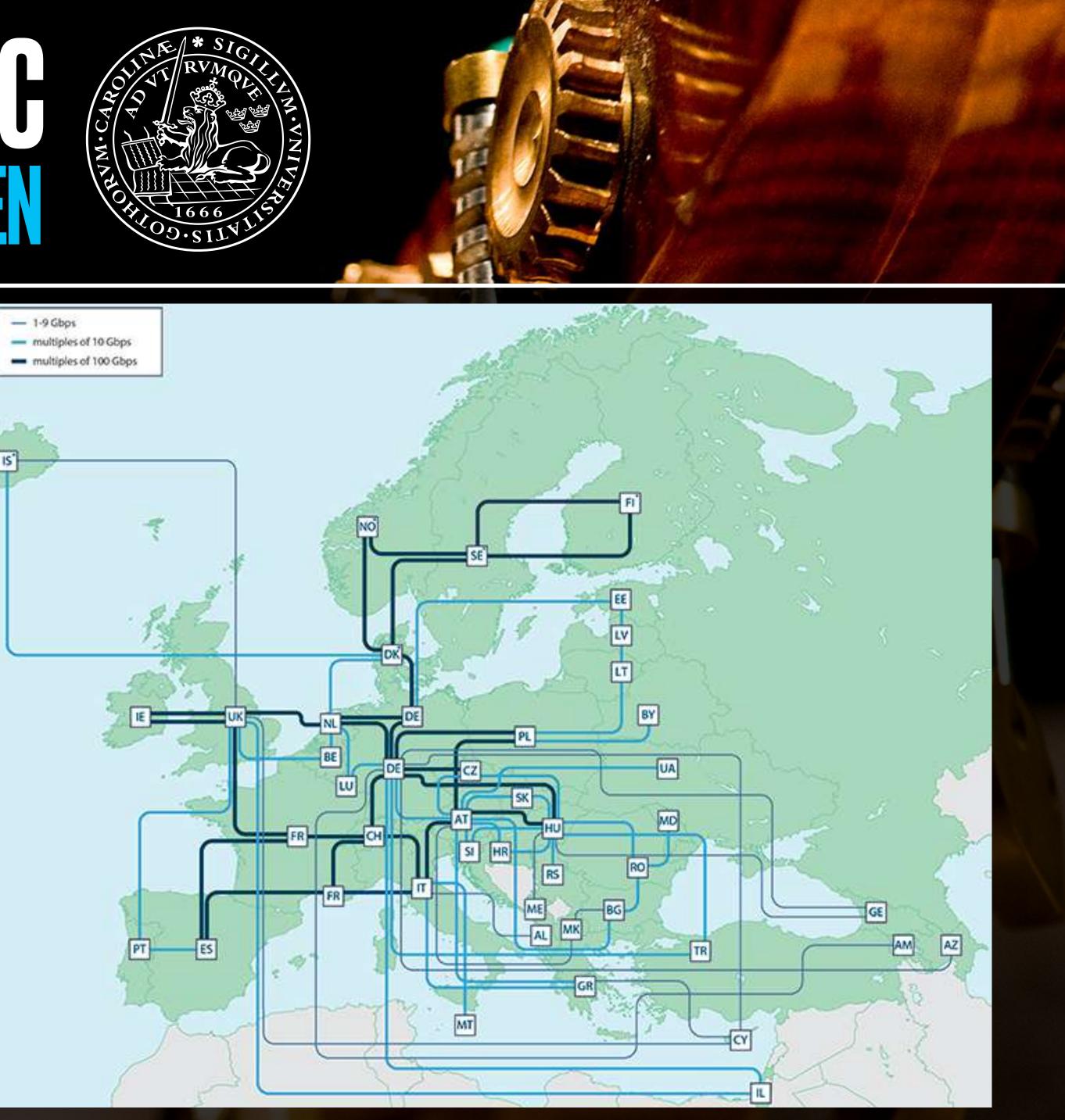
- High quality Audio & Video transmission Teacher/Student/Masterclass



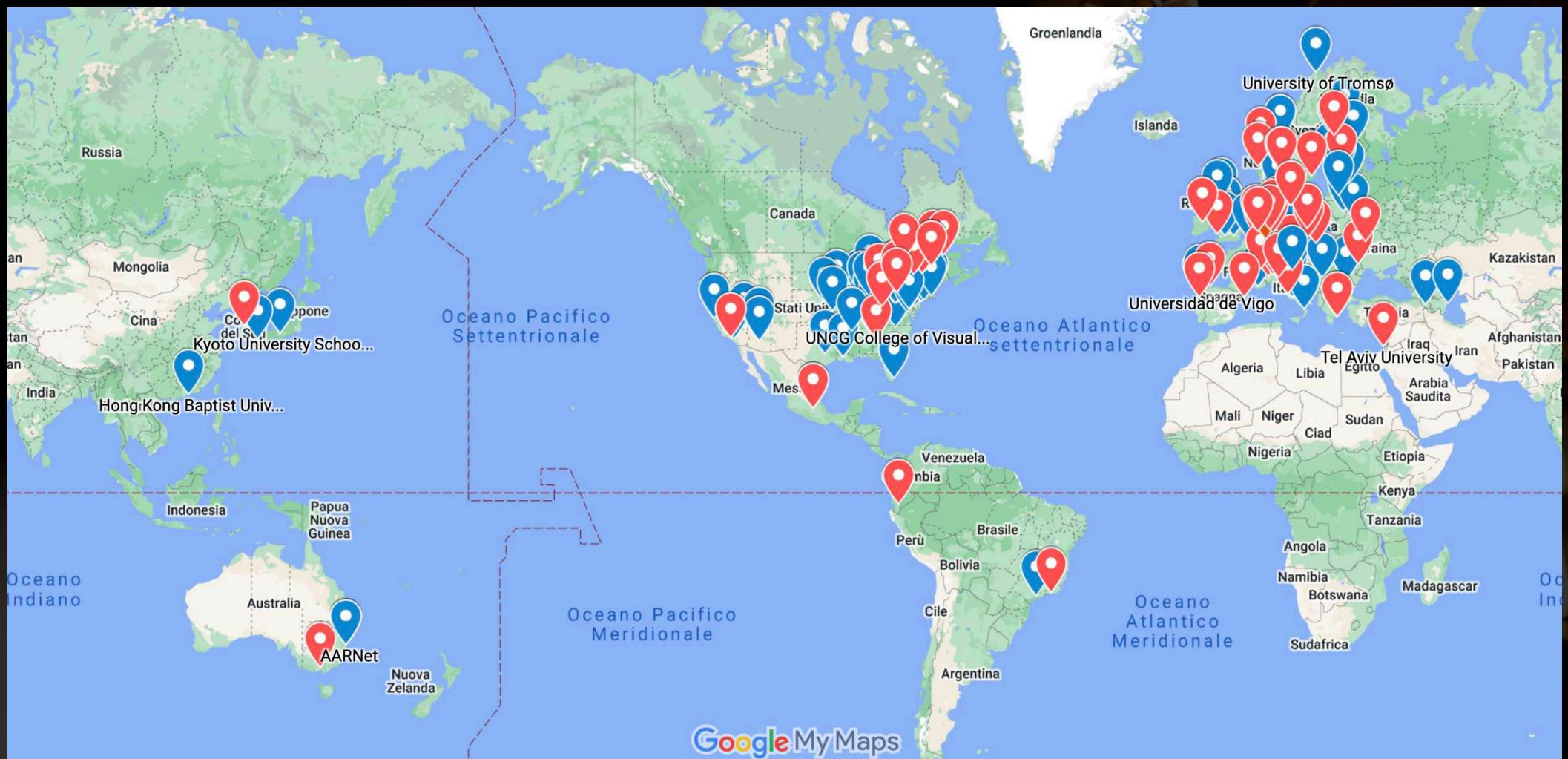
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Pan European Data Network for the research and Education Community



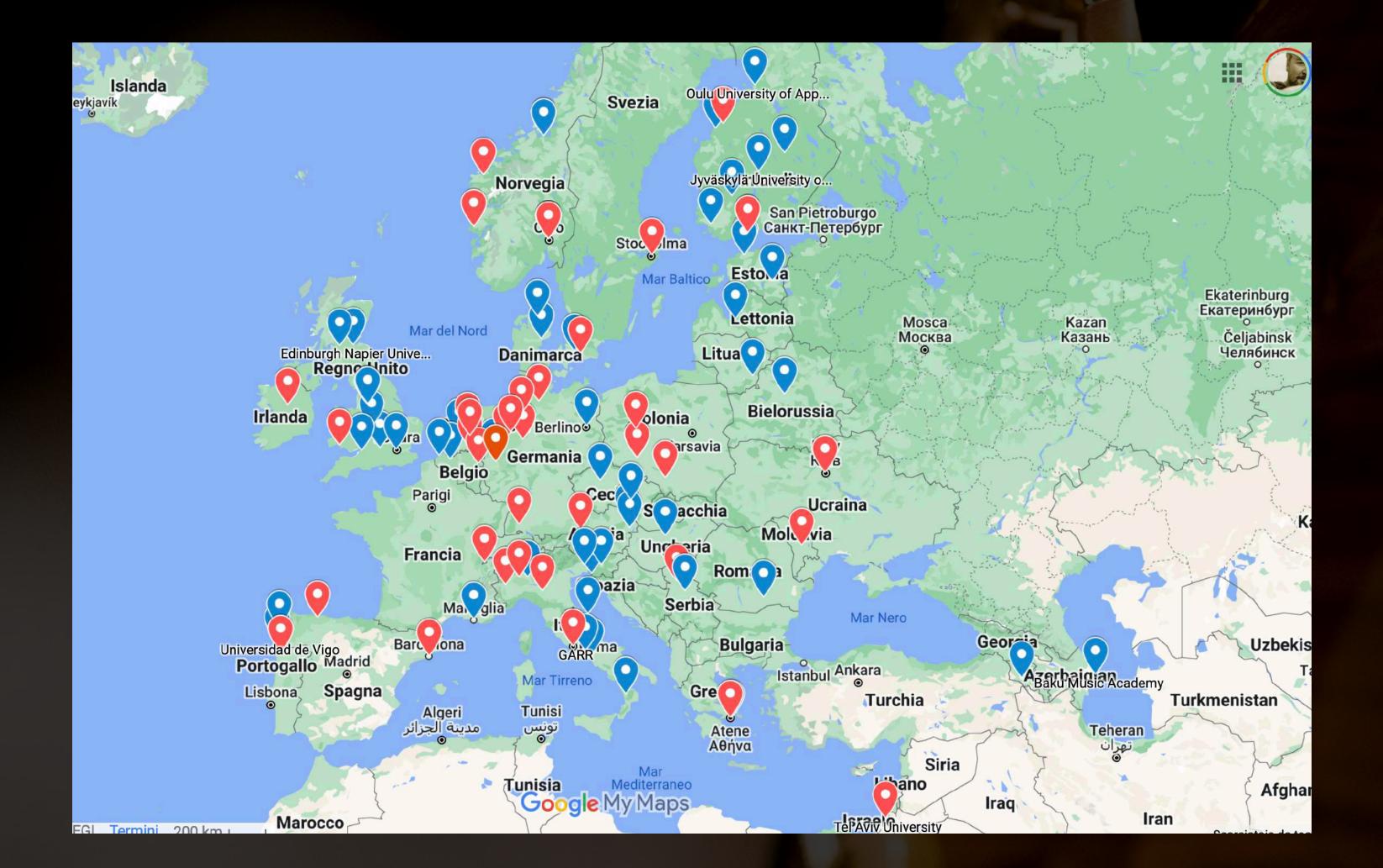
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LoLa implementation process







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LoLa implementation process

Bureaucracy in the University world TIME-TIME-TIME





INNINVERSITY - SWED

LoLa implementation process

Bureaucracy in the University world TIME-TIME-TIME

Getting the IT and technical stuff on the boat





INDINVERSITY - SWEDEN

LoLa implementation process **Bureaucracy in the University world TIME-TIME-TIME Getting the IT and technical stuff on the boat HR & Management issues**





INDINVERSITY - SWEDEN

LoLa implementation process **Bureaucracy in the University world TIME-TIME-TIME** Getting the IT and technical stuff on the boat **HR & Management issues Firewall - Academic DMZ**





INDINVFRSITY - SWEDEN

Industry Collaborations









LOLA BETA TESTS | & 2

Artistic researchers Peter Spissky and Sara Wilén Technical leadership: Dragan Buvac

Sessions recorded on "side cameras" in Malmö Recorded material from the Estonian Academy of Music and **Theatre** and Sibelius Academy

Qualitative methods

- Artistic log notes during and after sessions
- Video analyses
- Interviews and recorded conversations





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BETA TEST I - LOLA IN THE HOUSE

14 september 2023

Malmö Academy of Music Peter Spissky, baroque violin teacher with two violin students

Estonian Academy of Music and Theatre

Meelis Orgse, baroque violin teacher with two violin students

Dragan Buvac, music production

Zakarias Lindhammar, technician

Sara Wilén, researcher/observer





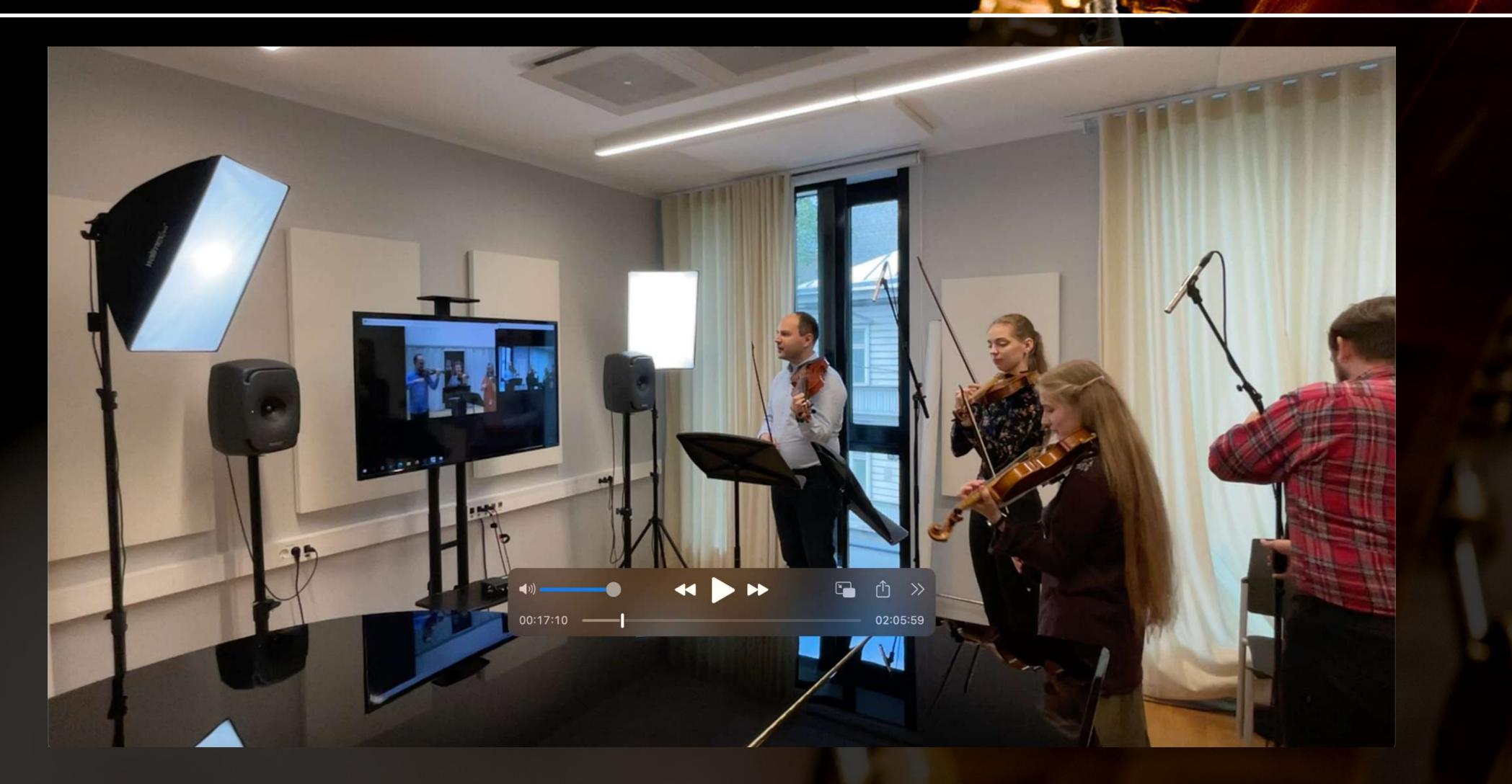
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LOLA IN THE HOUSE -

REPERTOIRE AND VIDEOS

From Georg Philipp Telemann Les Nations

- Les Allemandes ancients
- Allemandes modernes

Jean-Féry Rebel Les Caractères de la danse

Malmö video https://www.youtube.com/watch?v=PllrP5Faors

Tallinn video https://www.youtube.com/watch?v=50jvmr8Qpbl





LOLA IN THE HOUSE – TAKE AWAYS

- Positions of the microphones
 - Static microphones affect the musical dynamics
- Combining live musicians in the room with a sound via speakers
 - Acoustics in Malmö
 - Acoustics in Tallinn
 - "Digital" acoustics
- The visual cues between the two groups
 - Audio well coordinated the visual slightly delayed



Benefit of doubt for "not-togetherness": technical or musical issue?



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BETA TEST 2 – PLAYING WITH LOLA

4 October 2023

Malmö Academy of Music

Sara Wilén, mezzo soprano Jonatan Sersam, pianist Dragan Buvac, music production Zakarias Lindhammar, technician

Sibelius Academy

Mia Heikkinen, soprano Keijo Lahtinen, technician



Difference from Beta test I: Bigger screen



PLAYING WITH LOLA – OPERA IMPROVISATION

- Performers create music, words and action in the moment by using the concept of play
- Performers are inspired by musico-dramatic idioms and performative traditions from Western classical and contemporary art music
- The musico-dramatic content is shaped through the live interaction
- No written music is used
- No music is repeated
- The audience suggests ideas for the content





Mozart/early romantic style

Recitativo

Duet

Aria

Modern style

Aria

Duet



PLAYING WITH LOLA - FORM SET UP



Video: https://youtu.be/3FaTtfFDYcs



PLAYING WITH LOLA – TAKE AWAYS

- Positions of the microphone, screen and camera
- Combining live musicians in the room with a sound via speakers
- The visual cues between the two groups





ARTISTIC RESEARCH ISSUES

- the "in-person" direct musical communication?
- their artistic work?

• * concert, staged repertoire/improvisation performance



• How can LOLA be able to provide a sufficient substitute to

 Which technological qualities could make the LoLaperformers experience that they are in the same room?

• Which technological qualities are vital to LoLa- performers of a specific performative stage set up* or musical genre in



ARTISTIC/PEDAGOGICAL IMPLICATIONS

Develop and share set up plans for the placing of

Microphones, speakers, screens, cameras

Between academies (to compare, test and develop)

Pro-s and cons of streaming studio versus movable streaming set up

If it's a studio – for whom is it designed?



- Designed for different performative stage set ups and genre



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MALMÖ ACADEMY OF MUSIC Indiniversity - Sweden





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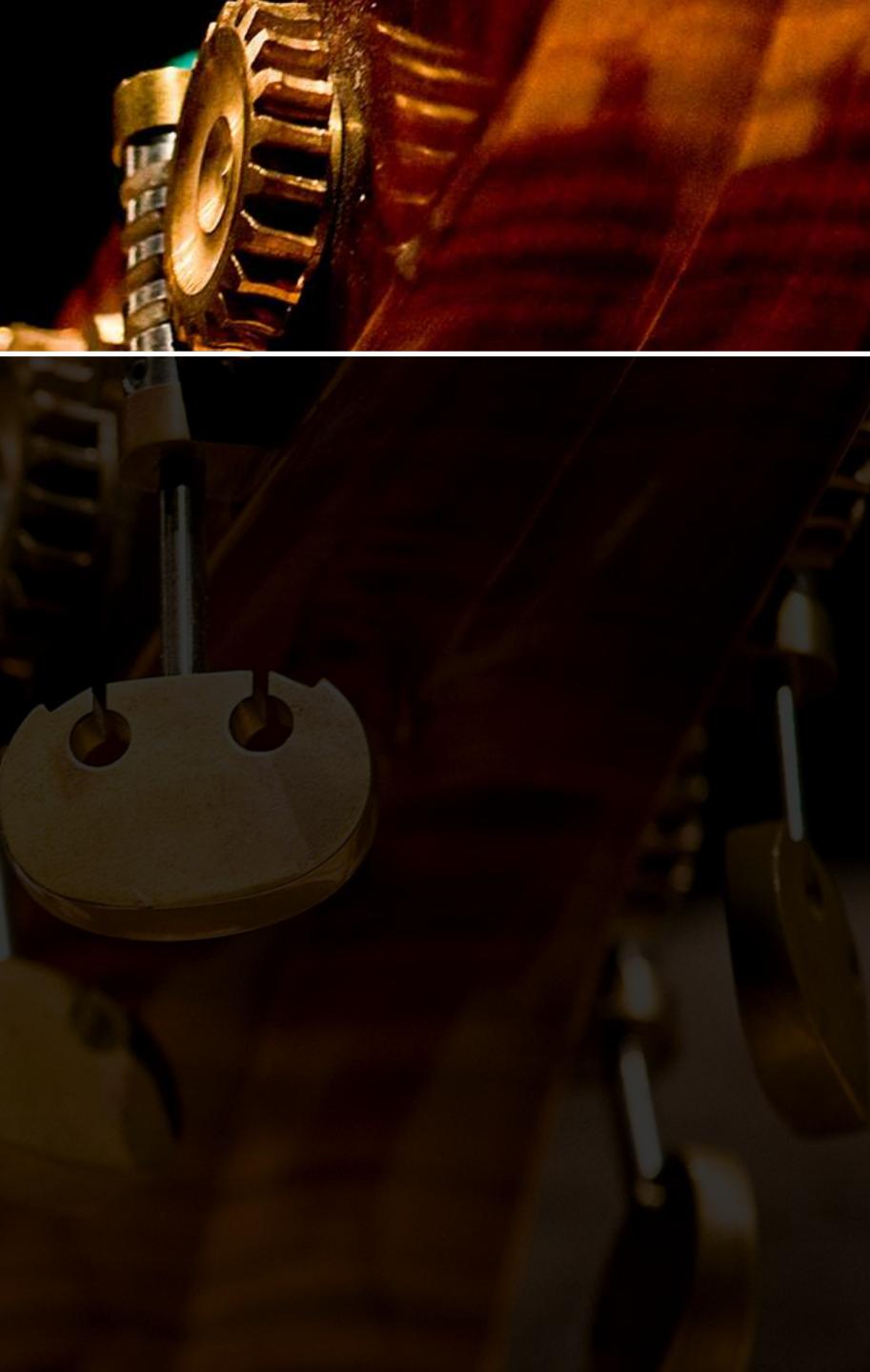
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Thank you !