The development of the **net:art coordination center** 2016 was based upon the successfully completed two productions in the field of performing arts over advanced networks: "near in the distance" (2013) and "near in the distance 2" (2015). And many other arguments are in favour of it.

The **net:art coordination center** | Vienna has been created to provide opportunities for knowledge and practical exchange for all participants and experts in the field of performing arts over advanced networks: network-technicians, dancers, programmers, developers, musicians, composers, light-designers, recording engineers, choreographers, actors and all others, who collaborate in the various phases of the project. Technology and arts are not "parallel universes", but a highly intermingled, interactive process.

A core-team of specialists will be founded and working-groups which will meet a couple of times a year to proceed the development and enable a fluid communication flow. The best case scenario is to bring in the results in the yearly NPAPW (network performing arts production workshop).

The better the infrastructure - the better the chances to realize performing arts over advanced networks productions. Through the innovative infrastructure project LWL-Ring WienMitte/WienWest (build up 2015 - as a wonderful result of our KUKIT-Roundtable) are many of the most notable art institutions in Vienna are fully redundant connected with each other and ACONet: Kunsthistorisches Museum Wien, Naturhistorisches Museum Wien, Hofburg, Schloß Schönbrunn GmbH, mdw-University of music and performing arts, Museumsquartier Wien and others. This project gave us and will give us many chances to realize different projects of performing arts over advanced networks. (At the moment we work on the project "touching moments@KHM" (Kunsthistorisches Museum Wien with participation of different international Museums/remote places). A production with the Staatsoper Wien is as well planned (the Staatsoper Wien is ACONet-member for a couple of month). Productions will be realized locally, regionally and internationally. In urban and rural areas.

Performing arts over advanced networks productions can be taught theoretically - but finally it is learning by doing. One the one hand, performing arts over advanced networks
| distributed liveness is an instrument to promote the entire work of ACOnet respectively NREN’s to the public via the emotional value of art. One the other hand we want to pursue an educational task.

With workshops and hands-on seminars we will try to transport this topic into the curriculum of technical colleges and to implement educational co-operations with universities for applied sciences.

Another goal of 2017 is to realize the project process yourself@TNC17. This project would give us as well the opportunity to invite interested students/teachers/networker of Linz to attend the process of rehearsals, connectivity tests etc.

With all these attempts we will try not only create a contemporary form of art presentation - we would like to create a new art form - always in the context of the work of other NRENs and research pioneers like the LOLA-team of the Conservatorio G. Tartini in Trieste or the UltraGrid-developers of CESNET.

In 2017 we will as well proceed as well our web presence: https://www.aco.net/netart-coordination.html?L=1

A collection of international publications/papers, which are connected to performing arts over advanced networks, is in work to give an overview about low latency technologies (hard/and software/technical riders), or research on the experiences/perceptions of artists and audiences - for example: Gill Davies | Researcher on Distributed Arts: The effectiveness of LOLA (LOw LAtency) audiovisual streaming technology for distributed music practice

We produced as well a video in 2013 (co-financed by TERENA) during the NPAPW 2013 in Vienna which is online and helps to sensitize the public, too. Within every multi-site-performance we try to produce a live-stream, which is later available as a video - together with a production website, where the entire team/task is represented: https://www.net25.at/net25_netart.html?&L=1

The net:art coordination center is as well a communication center, which again and again transports the information, that delivered liveness is a dream, that has been made reality on a very high standard. Because many productions failed in the mid-2000s there are even now quiet some prejudices around in Austria, without being aware of the new and challenging technologies.

performing arts over advanced networks is a interdisciplinary artistic synthesis ("Gesamtkunstwerk"). Successful implementations depend on several preconditions:

- cooperation partners and organizers with personal resources, as well as the "right spirit" for such a project
- a well-balanced team of specialists, who are willing to share their knowledge among themselves and show respect for other team members' work
- locations with sufficient internet connection (1 Gbps at the least; for core functions 10 Gbps) and also the technical infrastructure required for such an arts or performing projects
- relevant low-latency transmission technology and an active support team
- a team that is innovative and open for arts projects within open science networks (NRENs = National Research and Education Networks)

references: https://www.aco.net/kukit.html?L=1

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