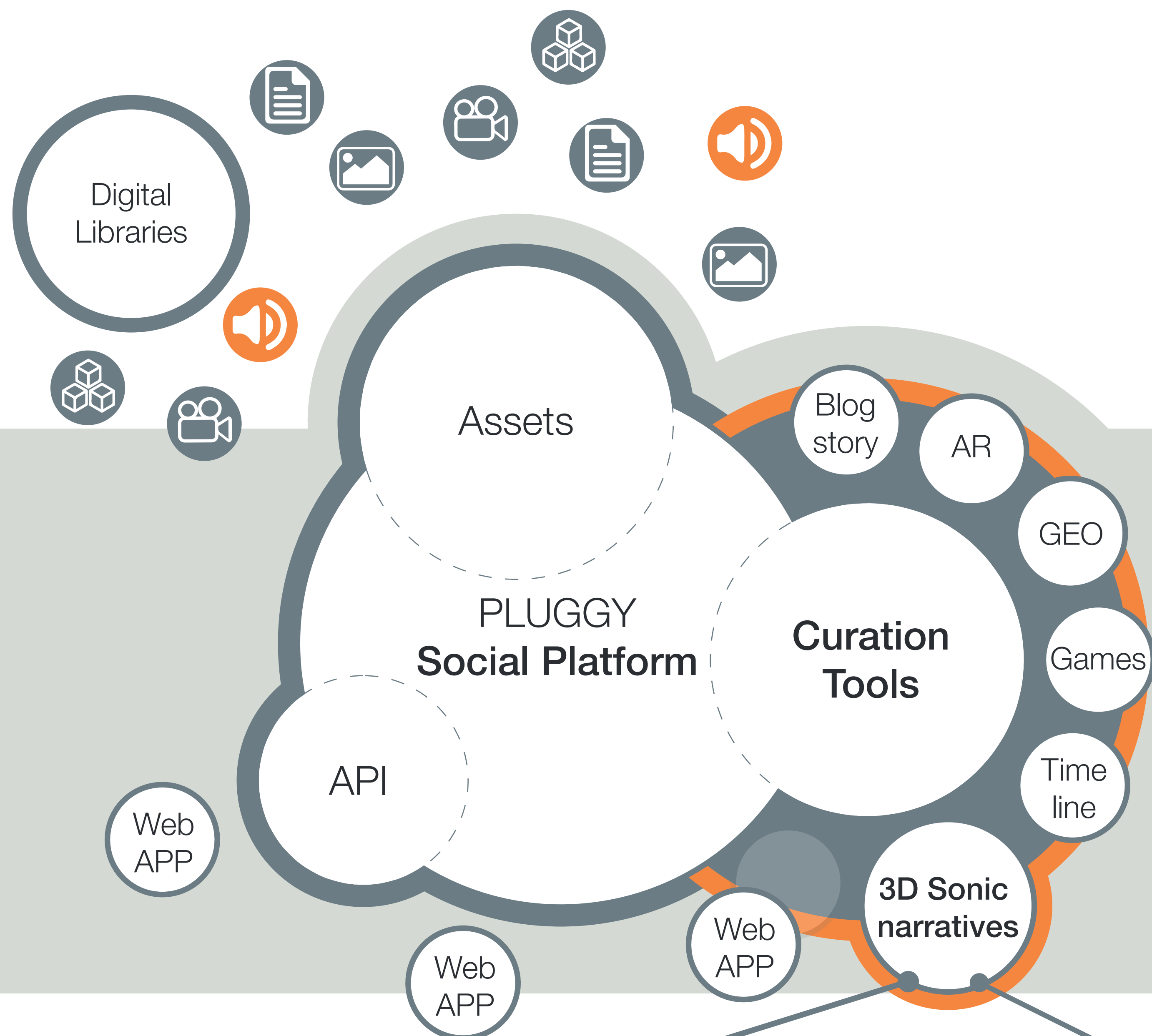




PLUGGY is a social platform for cultural heritage awareness and participation.

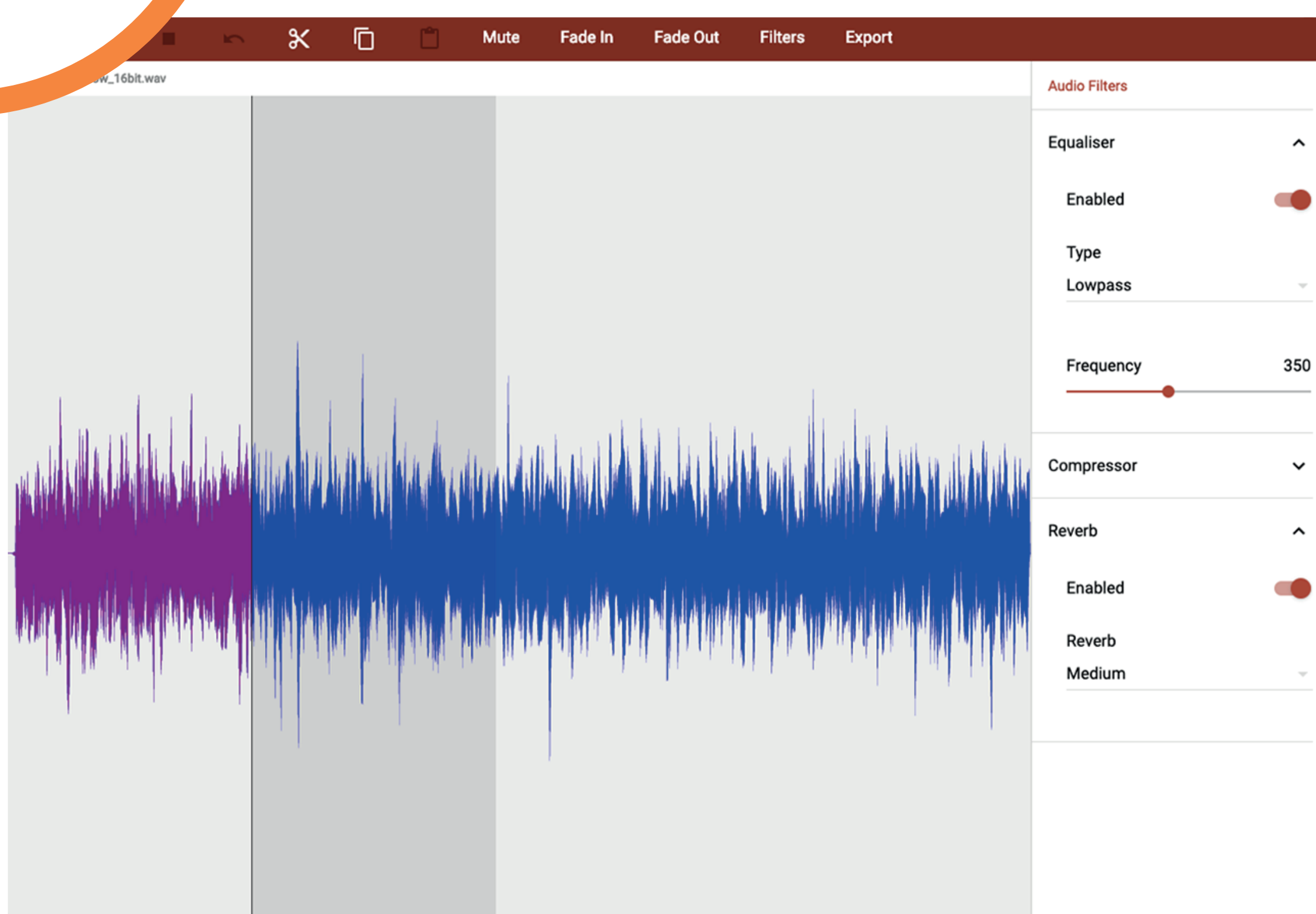
PLUGGY users, whether institutions or citizens, are given all the necessary instruments, like PLUGSONIC – without the need for specific devices, external tools, specialised knowledge or resources – to create, share and enjoy engaging experiences.



Web-based binaural audio and sonic narratives for cultural heritage

The Faro Convention (2005) on the Value of Cultural Heritage for Society concluded that “everyone, alone or collectively, has the right to benefit from the cultural heritage and to contribute to its enrichment”. However, very few ICT tools support citizens in their everyday activities to shape cultural heritage and be shaped by it. Social platforms offer the potential to build networks, but they have not been exploited yet for global cultural heritage promotion and integration in people’s everyday life.

PlugSonic Sample



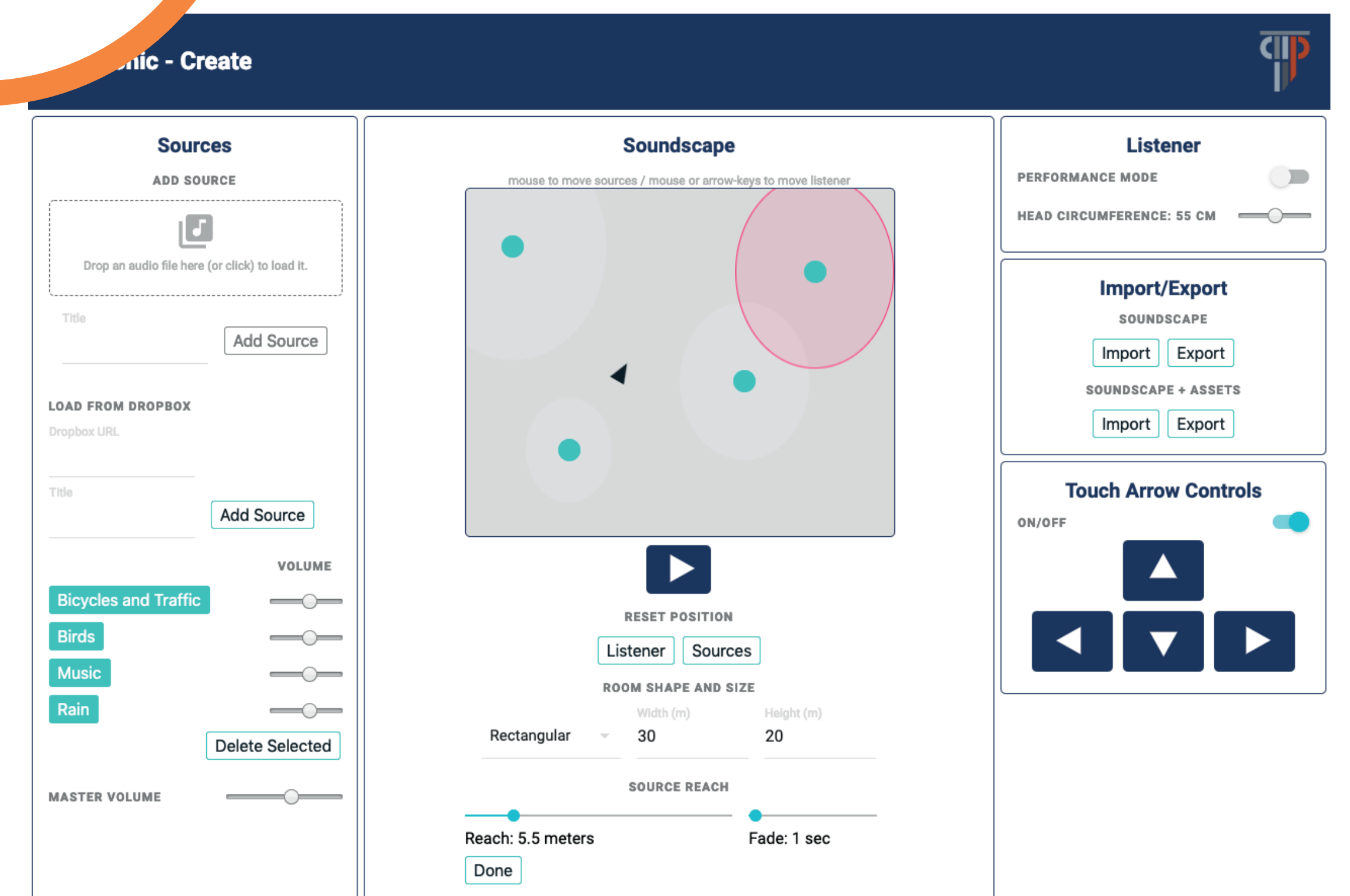
Social platform, curation tools and pluggable apps, will make use of sound files for voice description, audio narratives or sound accompaniment to the platform’s exhibitions. The web app PlugSonic Sample allows - using the web audio api - to edit the sounds uploaded to the social platform.

Designed to quickly edit sound files

Subset of features available in professional SW:

- Playback
- Editing: Copy/Cut/Paste, Mute, Fade In/Out
- Filters: Equaliser, Compressor, Reverb
- Export

PlugSonic Soundscape



Online and onsite visits to museums, monuments, exhibitions or archaeological sites will include interactive and explorable 3D audio narratives and soundscapes, which can be experienced both through a web-based and a mobile apps. PlugSonic Soundscape is designed to easily create and experience binaural sonic narratives using the sounds uploaded to the social platform. Soundscape uses the 3D Tune-In Toolkit for the binaural spatialisation.

Create 3D audio narratives:

- Add sound sources
- Position sources
- Define interaction area
- Set listener options
- Import/Export soundscape

Explore on any device:

- Mouse/Keyboard/Touch
- Web/Mobile
- Online/Offline

Imperial College London

Marco Comunità, Andrea Gerino, Veranika Lim, Lorenzo Picinali
Contact: m.comunita@imperial.ac.uk



Supported by the PLUGGY project (www.pluggy-project.eu), European Union’s Horizon 2020 research; and innovation programme under grant agreement No 726765.

Receive the full paper by email

References:
PlugSonic Sample: <http://plugsonic.pluggy.eu/sample>
PlugSonic Soundscape: <http://plugsonic.pluggy.eu/soundscape>
3D Tune-In Toolkit: <https://github.com/3DTune-In>

