Live Monitoring System

Remote forests satellite modem router AMP encode decode control PC

meteorologica

control PC

control PC

PC

long-extended Ethernet

sensor

digital single-lens reflex camera

suveillance video-camera

Cyberforest is based on a natural setting, which takes advantage of audio and video devices, to achieve a goal that people can listen to the sounds and observe images of natural areas and forests at Japan's 8 locations far away from our daily-life anytime and anywhere.

istening of cyberforest live-sounds are particularly popular, since those listening can be easily heard via smartphones and PCs.

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Live sound delay control adaptive queue-size control to prevent live-sound interruption

> Live sound streaming Server

mp3 stream over TCP/IP v4 and v6

Live sound archiving server

48 kHz, 32-bit stereo

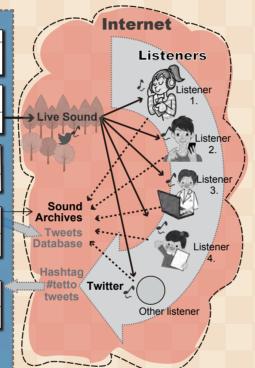
Web server http://www.cyberforest.jp/

All Cyberforest data open to public

Twitter #tetto database server

Twitter's REST API/ PosgreSQL

Live Streaming & Archiving System



Sound Lab. × Cyberforest

Share the same time passing in a forest through live microphone

Be connected to a remote forest by Cyberforest live-sound

Acid

Battery





Via your own **Smartphone** PCs!!

Kaoru Saito et.al (2015): Utilizing the Cyberforest live sound system with social media to remotely conduct woodland bird censuses in Central Japan: AMBIO: November 2015, Volume 44, Supplement 4, pp 572-583: doi:10. 1007, s13280-015-0708-y



University of Tokyo Cyberforest

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インターネットの先にある本物の自然

Cyberforest,

across Japan Jamin







Yamada, Iwate **Since 2014**

> Otsuchi, Iwate **Since 2011**



Gyamanouchi, Nagano Chichibu, Saitama Since 2012, 1955

Site streaming 24hours a day Chichibu, Saitama

Site streaming several hours a day

> Yamanakako, Yamashi (**Since 2012**

#yamanakako





Since 2010, 1955





