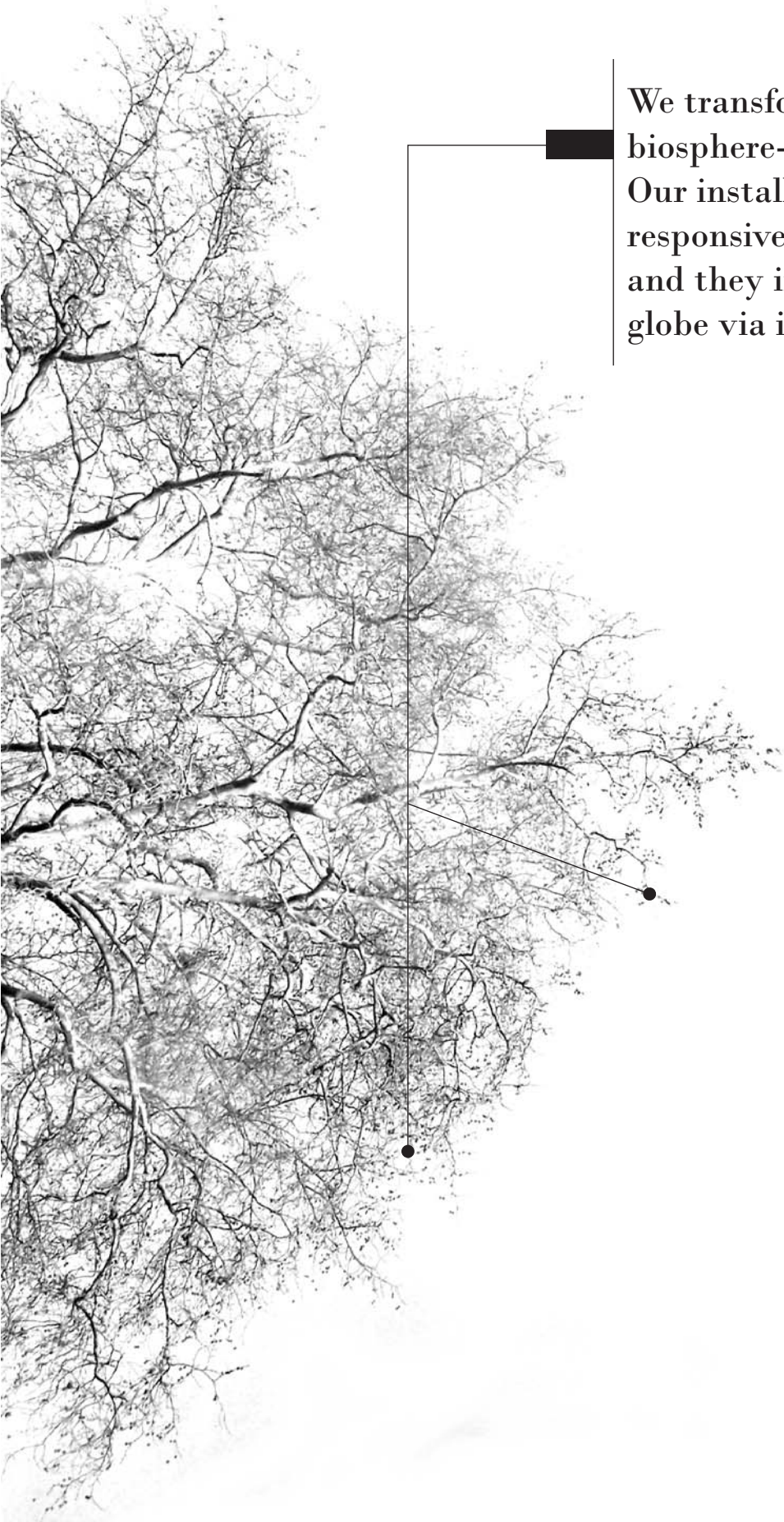


TheTilt

Nature, Art and Technology, networked



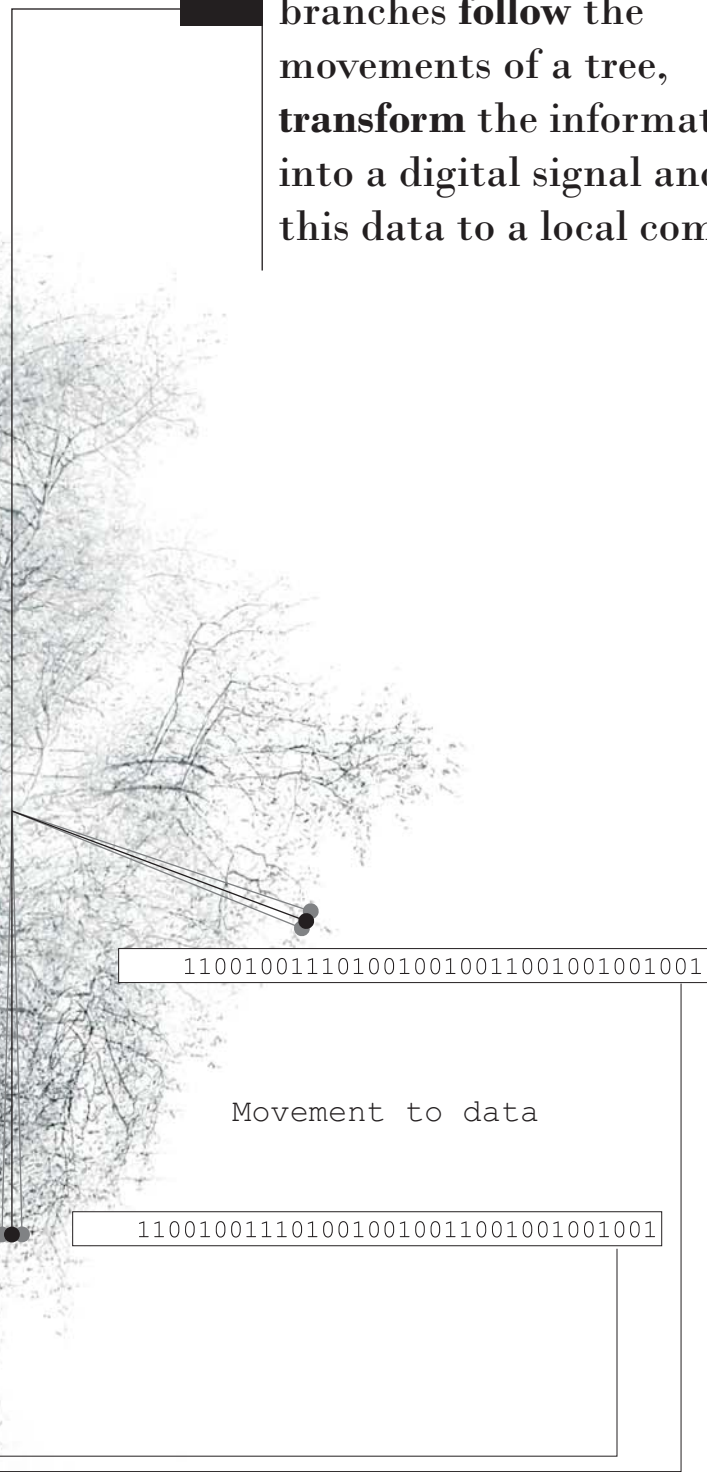


We transform trees into
biosphere-composers.
Our installations are highly
responsive to natural evolutions
and they interact across the
globe via internet.

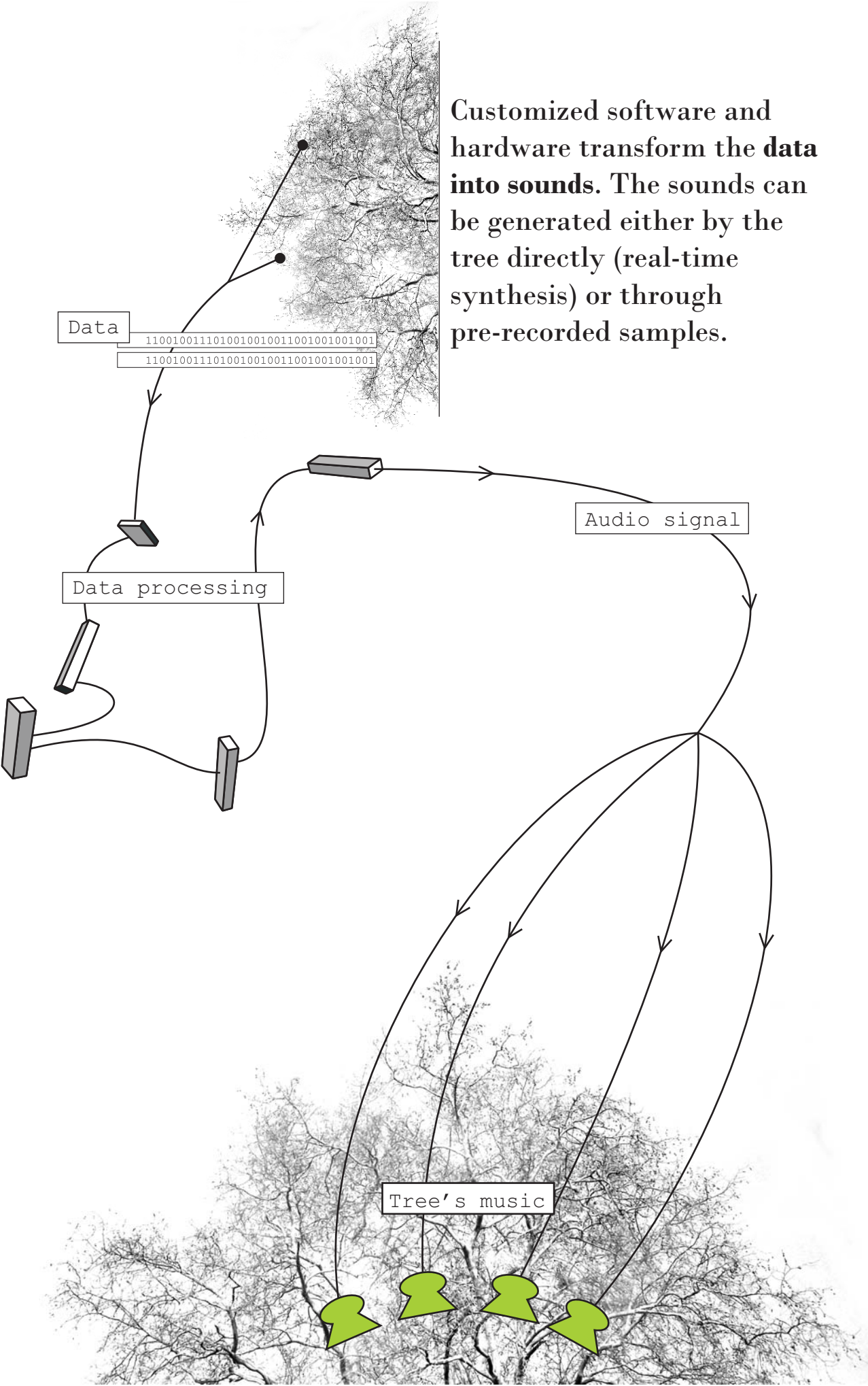
TheTilt

1

Sensors attached to the branches **follow** the movements of a tree, **transform** the information into a digital signal and **send** this data to a local computer.



Customized software and hardware transform the **data** into **sounds**. The sounds can be generated either by the tree directly (real-time synthesis) or through pre-recorded samples.



Each tree is surrounded by **special speakers or sonic-modules**. In our installations the public can **feel** the wind, **see** how the tree reacts with it, and **listen** to the sounds made by the tree.

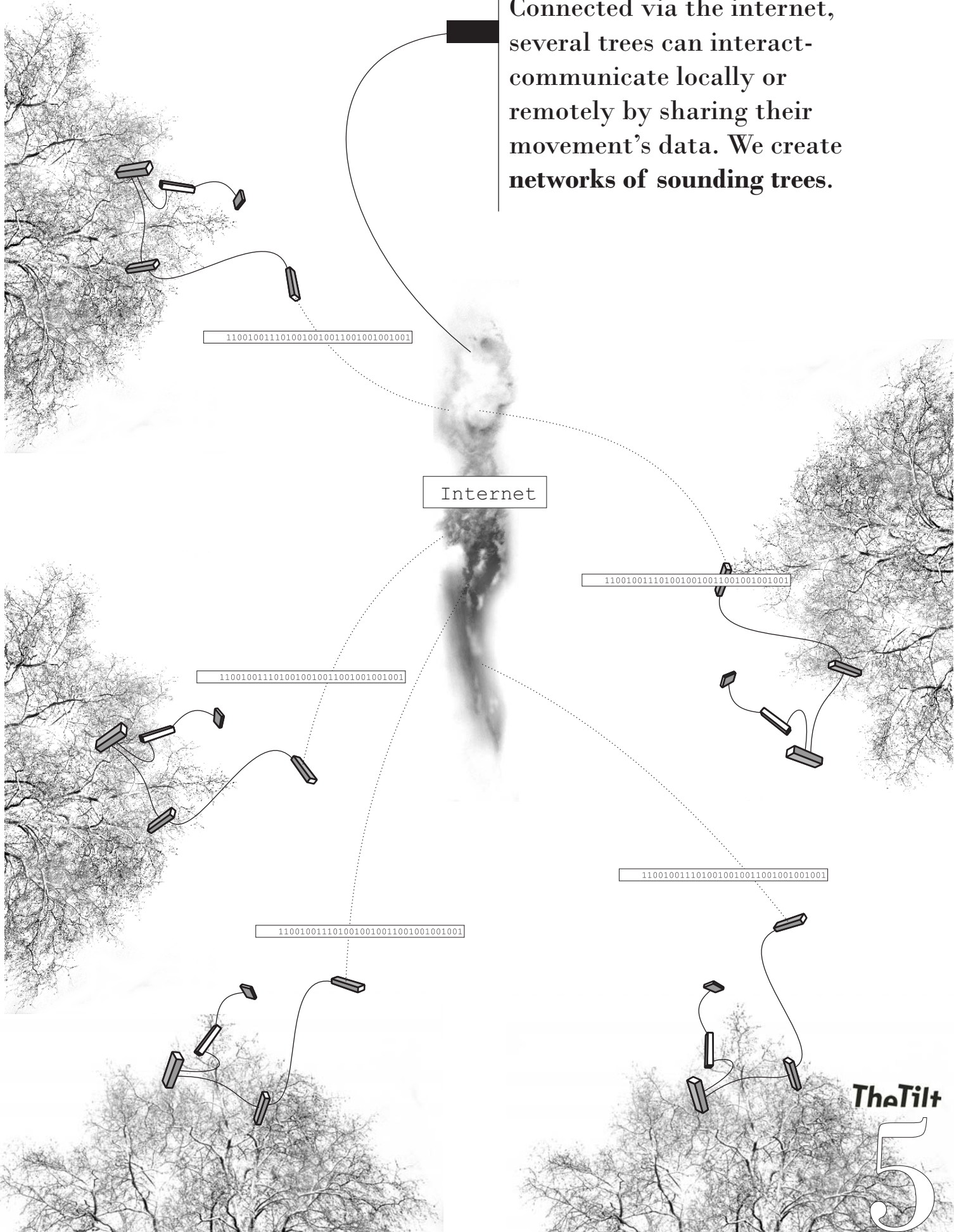


Plexiglas reflector and speaker popping out from a tree.
Kornerpark, Berlin, 2007.



Sculpture-speakers as sonic-modules around the tree. Artistic concept.

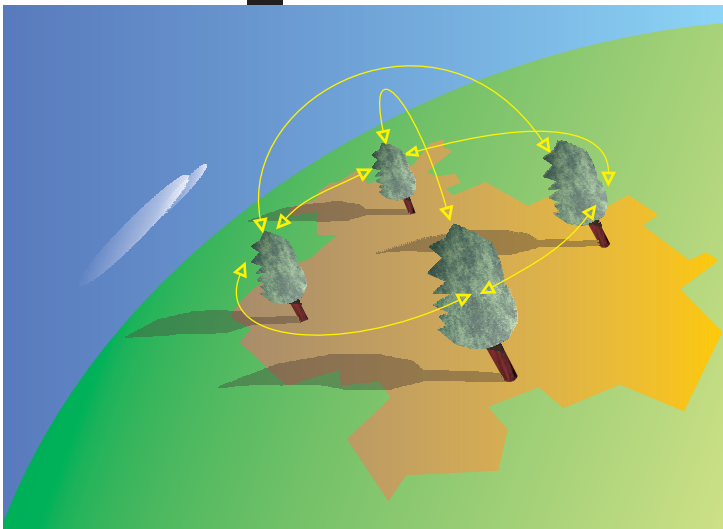
Connected via the internet, several trees can interact-communicate locally or remotely by sharing their movement's data. We create **networks of sounding trees.**





If there is no wind in one location the installation still works with the information sent by the connected trees abroad.

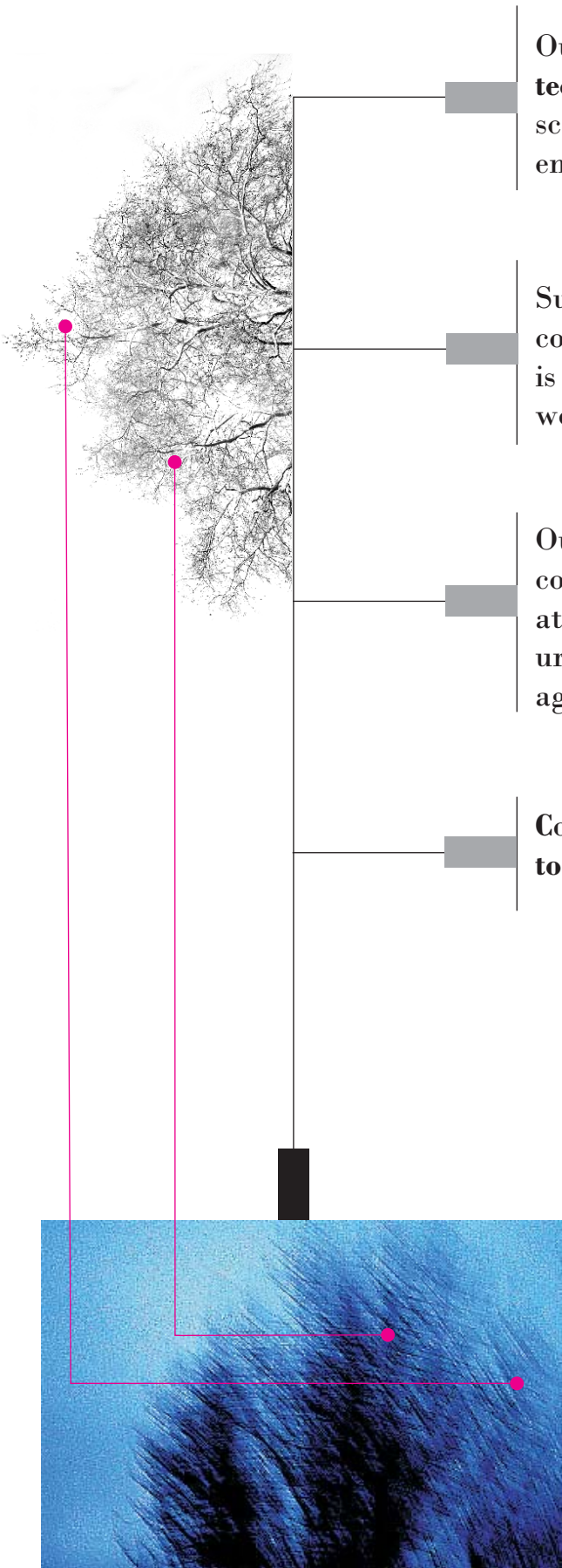
We deliberately choose visual and acoustic elements to the installation so the audience would have the opportunity to de-construct the notion of borders and listen to nature as a truly global-phenomena.



A regional Network.



A continental Network.



Our installations link **nature**, **technology** and **music** within a global scope to create a collective environment.

Successful global-networking and cooperation on an institutional level is one of the characteristics of our work.

Our networks not only trigger a contemplative, nature-oriented attitude in our audiences: they link urban public-spaces with nature again.

Conceptually we link **global internet** to **global wind**.



The Tilt Group was founded in 2005 in Berlin, Germany. We are an experienced group of artists, programmers network-specialists and managers dedicated to develop tree-networks all over the globe.

Carlos Sandoval / Oori Shalev / Juliette Montier

For More information please visit our website:
www.the-tilt.com or drop us an email to
Juliette Montier, promotion
juliette [at] the-tilt.com

TheTilt Team



Carlos Sandoval works in sound-design and sound installations, improvisation processes and live-electronics, music-theater, written music and the mix of all of them. He creates music also with living-trees connected world-wide via internet using accelerometers. Has been freelance composer since 1989. B.A. in composition in Mexico (National School of Music, 1976-79). Graduate studies in composition, analysis and theory with Estrada (ENM, 1985-90). Piano-design and piano-tuning, Bösendorfer (1980-82) Conlon Nancarrow's assistant in Mexico City (1991-94). He lives and works in Germany.



Oori Shalev Musician and technological artist. Combines sensitive improvisation with digital machinery. Plays Indian, middle-Eastern and Western percussion. His work includes interdisciplinary projects and sound-installations like "To Sing a Forest", "Sotavento", "The Biosphere Lab" and "Baumberauschen". As percussionist he has played with countless groups and musicians of different styles and countries. Shalev develops hardware and software for real-time sonic interaction. Expert in network-technology, he founded and led a team of engineers in several large-scale projects for governmental and international agencies and corporations. His developments have been presented in several exhibitions in Israel and Europe.



Juliette Montier works as freelance manager and curator for art festivals, independent art projects or artists groups. She worked for several artistic associations and European organizations in Berlin: Art festival 48 Stunden Neukölln, Multimedia festival Prix Europa, Chinese-German art exchange association, European Information Center, as well as for an art foundation in Paris. Graduate studies in applied foreign languages in Paris (Sorbonne Nouvelle, 2002). She lives and works in Berlin since 2003.

TheTilt Archive

Sotavento network — May 2006

Mexico, Italy and Germany

- Giardino Sonoro, Florence Italy
- Festival de San Luis, San Luis Porosí, Mexico
- Labtree-Berlin

Quadraphonic setup in Italy and Mexico.

- The Italian tree was feeded by the Mexican Tree
- The Mexican tree was feeded by the Italian and German trees.
- Installations in Italy and Mexico.

Carlos Sandoval / Oori Shalev / Iftah Gabbai / Lorenzo Bruci / Bertram Hanssum / Detlef Hale



Florence Italy



Berlin, Germany



San Luis, Mexico



Giardino Sonoro
Limonaia
del' imperialino,
Florence Italy



Lab Tree,
Kreuzberg, Berlin,
Germany



UASLP, UNESCO
protected building
installation.

TheTilt Archive

Tu-Tilt Biosphere Lab — July 2007

No internet connection. The tree itself was making its own music. Quadraphonic setup plus an interactive Bamboo-stick.

In collaboration with the TU Studio of the TU Berlin and Lange Tag der Stadtnatur Festival

Carlos Sandoval / Oori Shalev / Folkmar Hein / Wilm Thoben.



Mounting sensors



Interactive Bambu stick with sensors

TheTilt Archive

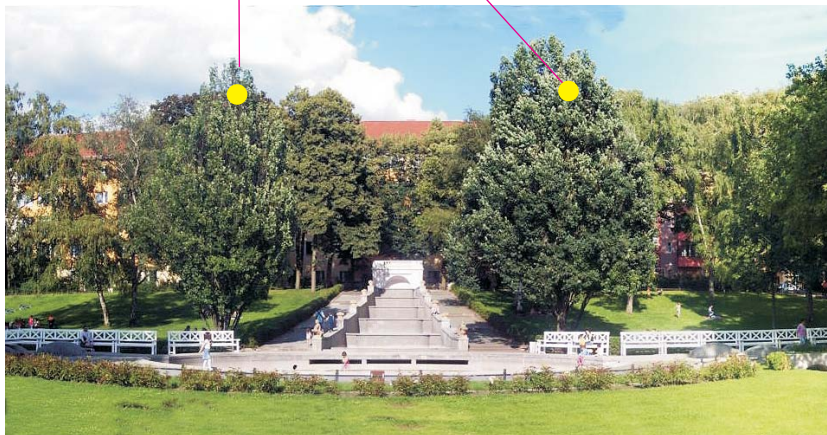
Baumberauschen — June 2007

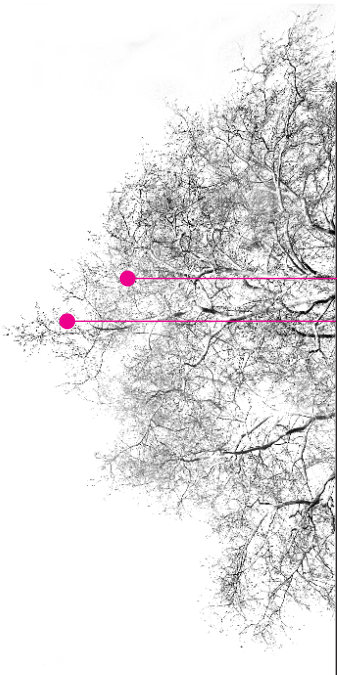
Neukölln, Berlin

Festival Kultur = Identität

- Quadraphonic to Stereo setup
- 2 trees at the Körnerpark, Berlin, Germany, (with one particular sonic character each)
- Labtree-Berlin, providing movements via wireless-celular network-based Internet
- City-protected park and trees

Carlos Sandoval / Oori Shalev / Juliette Montier
Martin Stephens





Interaktion 1 Festival

During the festival we were in permanent contact with at least 3 trees located in different countries. Using custom-designed sensors, the trees sent their wind-movement's data in real time to the musicians via internet. This was the first festival held in Germany that concentrated in a real-time interaction between musicians and natural evolutions.

A "The-Tilt group" production with the collaboration of Ballhaus Naunyn.

Coordination: Carlos Sandoval and Oori Shalev

Computer programing: Oori Shalev

Kindly supported by Initiative Neue Musik e.V.

Project partners: TU Elektronischen Studio, TU Berlin, Ballhaus Naunyn.

Media partner: Zitty Berlin

To sing a Forest

Movement with three musicians, three trees and a dancer. Indo-European improvisation iand real-time interaction with living trees affects the musicians. Movements are the unifying force in this performance.

Die Schaukel

A 3:08:06" hour chimera in the form of a music interaction with trees, sensors and internet, light-installation, music-theater and free improvisation.

*Interaktion*¹



TheTilt

Exhibitions:

- 2007, September-November: *Baumberauschen*, Körnerpark, Neukölln, Berlin
- 2007, June: *Biospherelab*, TU Studio, Technische Universität, Langer Tag der Stadt Natur, Berlin
- 2007, June: *Interaktion1*, Ballhausnaunyn. Berlin. Two-days music festival with trees.
- 2006, April-November: *Sotavento*, Giardino Sonoro, Florence, Italy
- 2006, May-November: *Sotavento* San Luis Potosi, UASLP, Festival de San Luis
- 2006, August: *The Birth of a Ship*, Deutsches Technikmuseum Berlin, Langer Nacht der Museen, concert on ships.

Lab: Kreuzberg, Berlin: Lab-tree with sensors online, since April 2006.

Main sponsors: — INM, TU-Studio, Berlin, Giardino Sonoro Florence, Festival de San Luis, Senatsverwaltung für Wissenschaft, Forschung und Kultur, MoobiCent, Die Bundes Regierung Deutschland, Stadt Berlin, European Union, Senatsverwaltung für Stadt Entwicklung Berlin (Soziale Stadt), EFRE, Deutsches Technikmuseum Berlin, Quartiersmanagement Körnerpark.

Music releases: 2007, *Digital Biotope*, Online Label:

http://digitalbiotope.net/index.php?menu=audio&work=db029_Tilt_Sotavento. Release: db029

Press, Hardcopy and TV:

- 2007, August: Evening news. Rundfunk Berlin-Brandenburg, RBB, Abendschau. "Baumberauschen", news report.
- 2006, May: Mexico, Televisa San Luis Potosí, interview, report
- 2006, Laura Catellanos, "Captura el sonido de los árboles", Reforma, May15th, Mexico.
- 2006, Arturo Cruz, "Árboles sonoros" La Jornada", May16th, Mexico.
- 2006, Francisco González, "Sotavento, los árboles que cantan por Internet", UASLP Magazine", May, , Mexico.

Press online, selection:

- Jo-Anne Green, New Radio and Performing Arts, Inc., NYC, Networked Music Review, http://transition.turbulence.org/networked_music_review/2007/06/05/sotavento-internet-forest-of-sounding-trees/ June 5th 2007.
- Makezine blog, http://blog.makezine.com/archive/2007/08/sotavento_what_does_a_tre.html August 15th 2007.
- Philippe Zulaica, "Hyper Paiseage", Digital Biotope, Net Label, http://digitalbiotope.net/index.php?menu=audio&work=db029_Tilt_Sotavento, 2007.
- Theoretical Playground, UK. <http://theoreticalplayground.co.uk/index.php/2007/04/17/sotavento-internet-forest-of-sounding-trees/> April 17th 2007.
- "Trees in the wind: a global jam band?" <http://daqnewb.blogspot.com/2007/03/trees-in-wind-global-jam-band.html> "This is a beautiful interconnection of electronics hardware and software design, with art, music, nature (wind and trees), and chaos." March 2nd 2007.
- Manifest Density, http://www.manifestdensity.net/2006/11/01/i_do_genuinely_miss_artomatic/ "these strike me as employing technology in service of an idea, rather than using ideas to justify the deployment of technology." November 1st 2006.
- Learning trails, London UK, <http://www.exhibitresearch.com/trails/?p=78> September 15th 2007.
- "Sotavento" http://uaslp-habitat.blogspot.com/2006_06_01_archive.html June 5th 2006.
- "Finding beauty in the dissonance" <http://jorgenmz.wordpress.com/2006/05/02/finding-beauty-in-the-dissonance/> May 2nd 2006
- "Sotavento", Zinger.org, July 15th 2005
- "Sotavento" <http://www.uaslp.mx/Plantilla.aspx?padre=3519> May 8th 2008
- Clickylog, <http://ryangallagher.tumblr.com/post/4721183> 2.Jul. July 2nd 2007
- "Körnerpark: Installation „Baumberauschen“ von THE TILT. <http://www.berlin.de/ba-neukoelln/presse/archiv/20071015.0940.86934.html> August 10th 2007.

TheTilt Press

"This work comprehends a global landscape, an hyper-garden, a space in short-circuit. It is an ecology of resources that establish new interdependencies..." Philippe Zulaica, Digital biotopia, France

“Lautsprecher im Geäst, aus denen seltsame Geräusche dringen (...) es knackt und surrt im lichter werdenden Laub. Ein ungewöhnlicher Herbst-Sound an einem der schönsten Orte mitten in Neukölln.” zibb 23.10.07, RBB, Germany

“...this strike me as employing technology in service of an idea, rather than using ideas to justify the deployment of technology.” Manifest Density, Online Blog

“...compiling work, perfect for public spaces.” Laura Castellanos, Reforma, Mexico

“...we listened the nature again...” Arturo Cruz
La Jornada, Mexico

“...art and composition with organic life.” Maria González,
La jornada, Mexico

“...this junction of technology and nature is a conclusive example how we can approach this world beyond cement, smog and chaos...”
Francisco González, Mexico

“Fantasievolle Geräusche und Klänge”, RBB, Abendschau Germany

“Im Körnerpark mischt sich natürliches Blätterwispern mit klangvollem Baumberauschen.” Berliner Abendblatt, Neuköllner Ausgabe, Germany