

Extending XO Laptop Activities



Dale Joachim
Media Laboratory
MIT



Facilitator

XO and Beyond

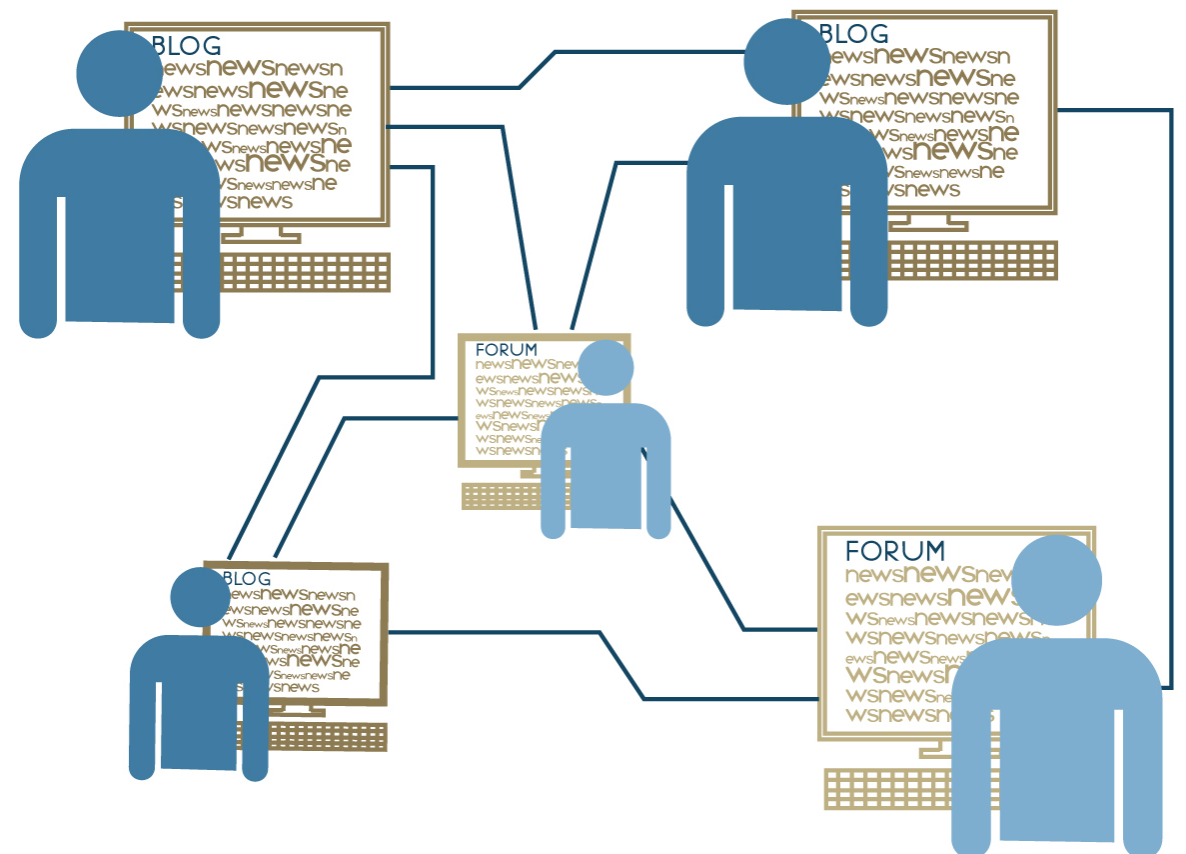
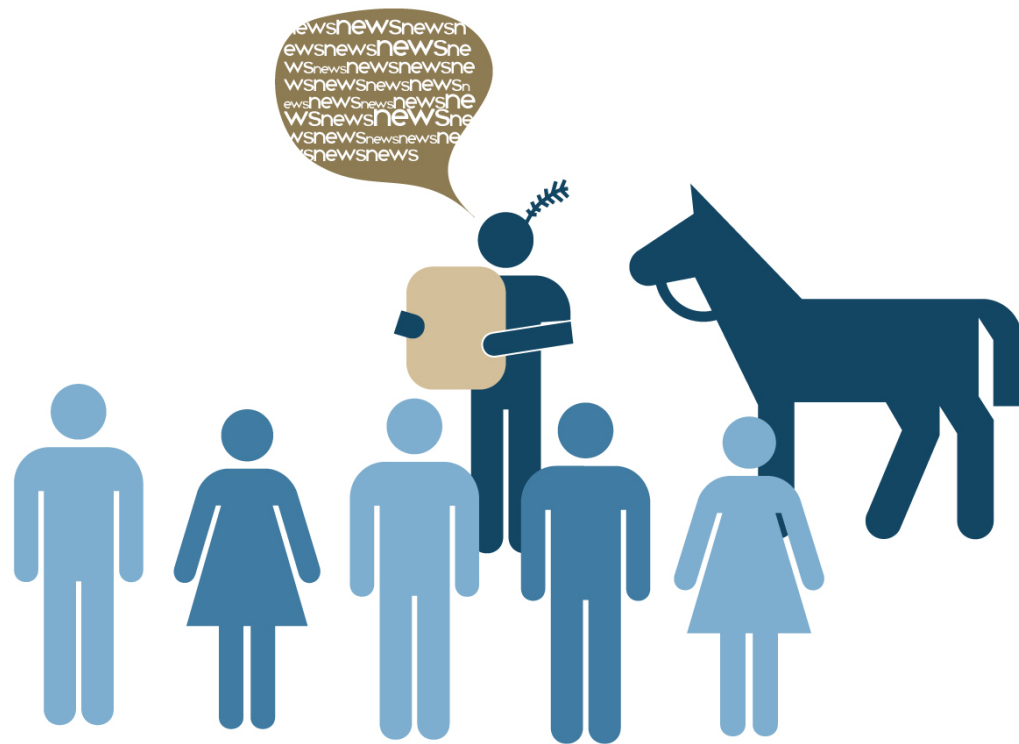
Bold & Risky Adventure

simulation < > experimentation

local < > global

individual < > collaboration

Horizontal Learning



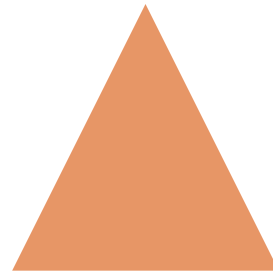
Environmental Concerns

- legacy to children
- important new tools

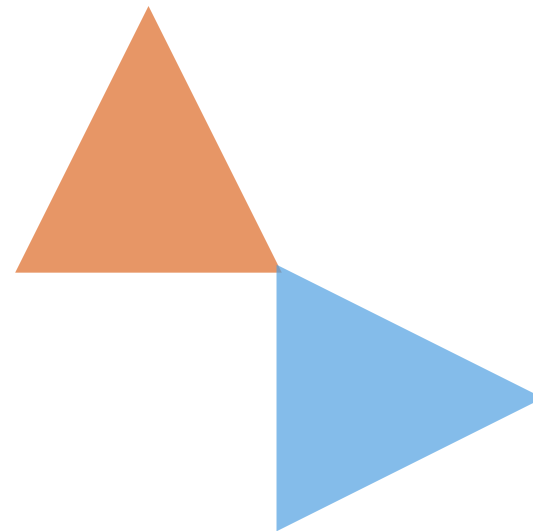


world participation

(accessible, affordable, engaging)

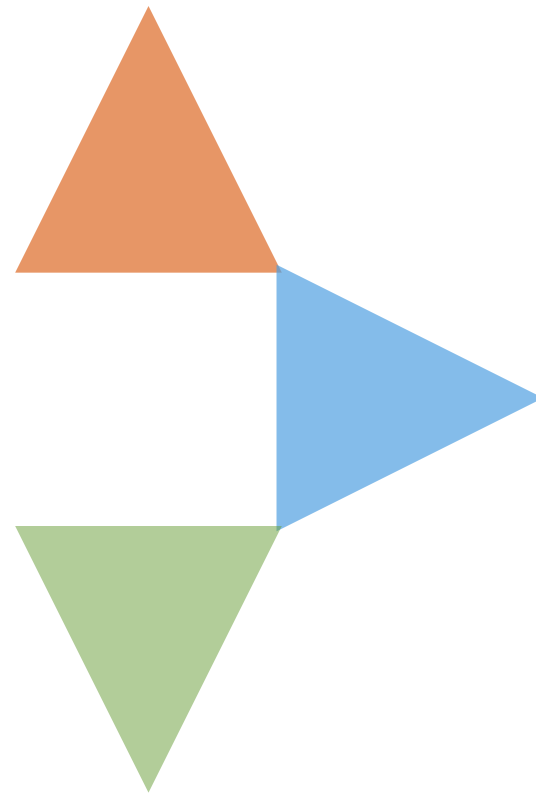


world participation
(accessible, affordable, engaging)



dynamic data
(on-demand)

world participation
(accessible, affordable, engaging)



dynamic data
(on-demand)

human-powered

world participation
(accessible, affordable, engaging)

active exploration
(simulate, observe, interact)



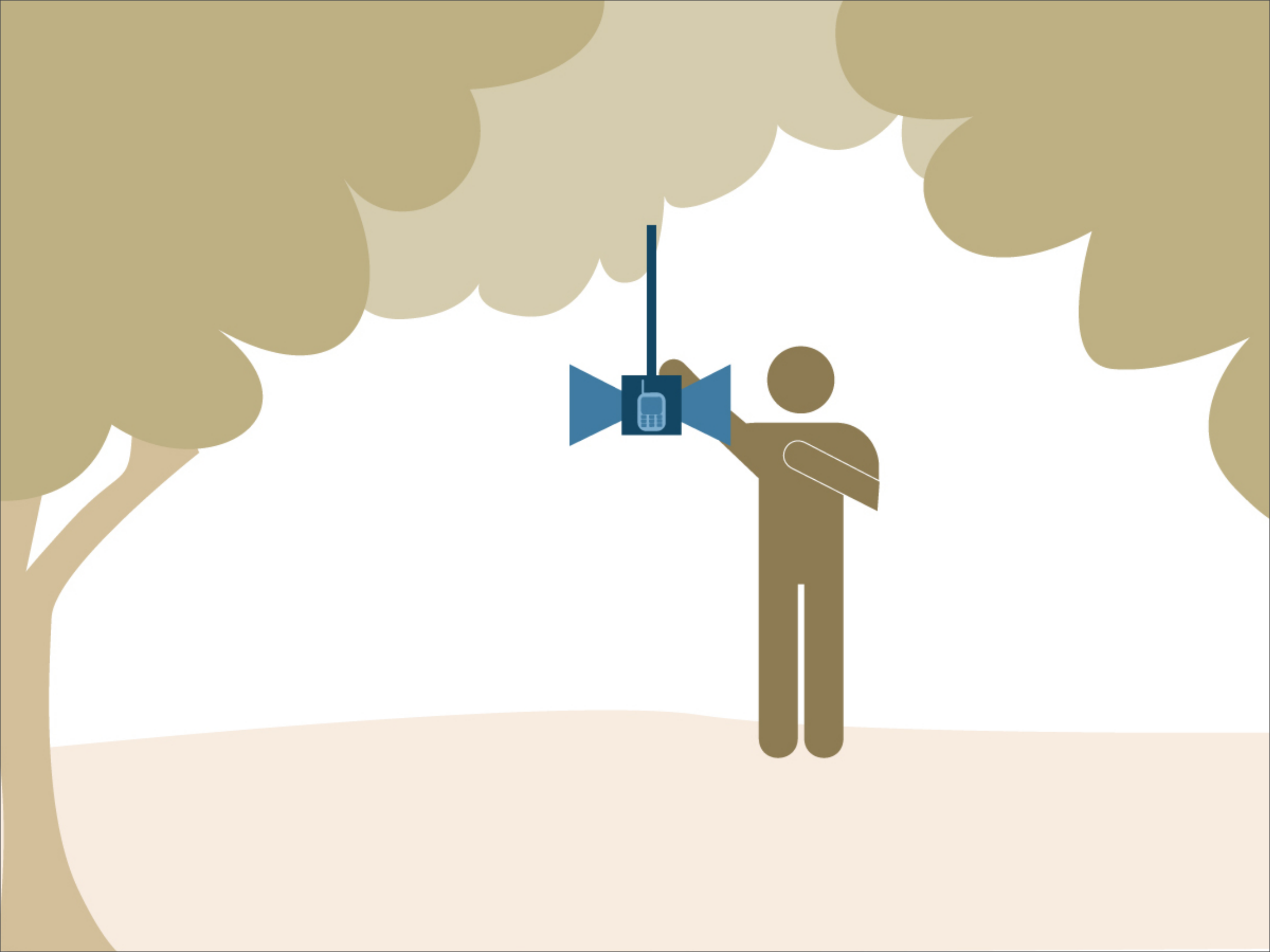
dynamic data
(on-demand)

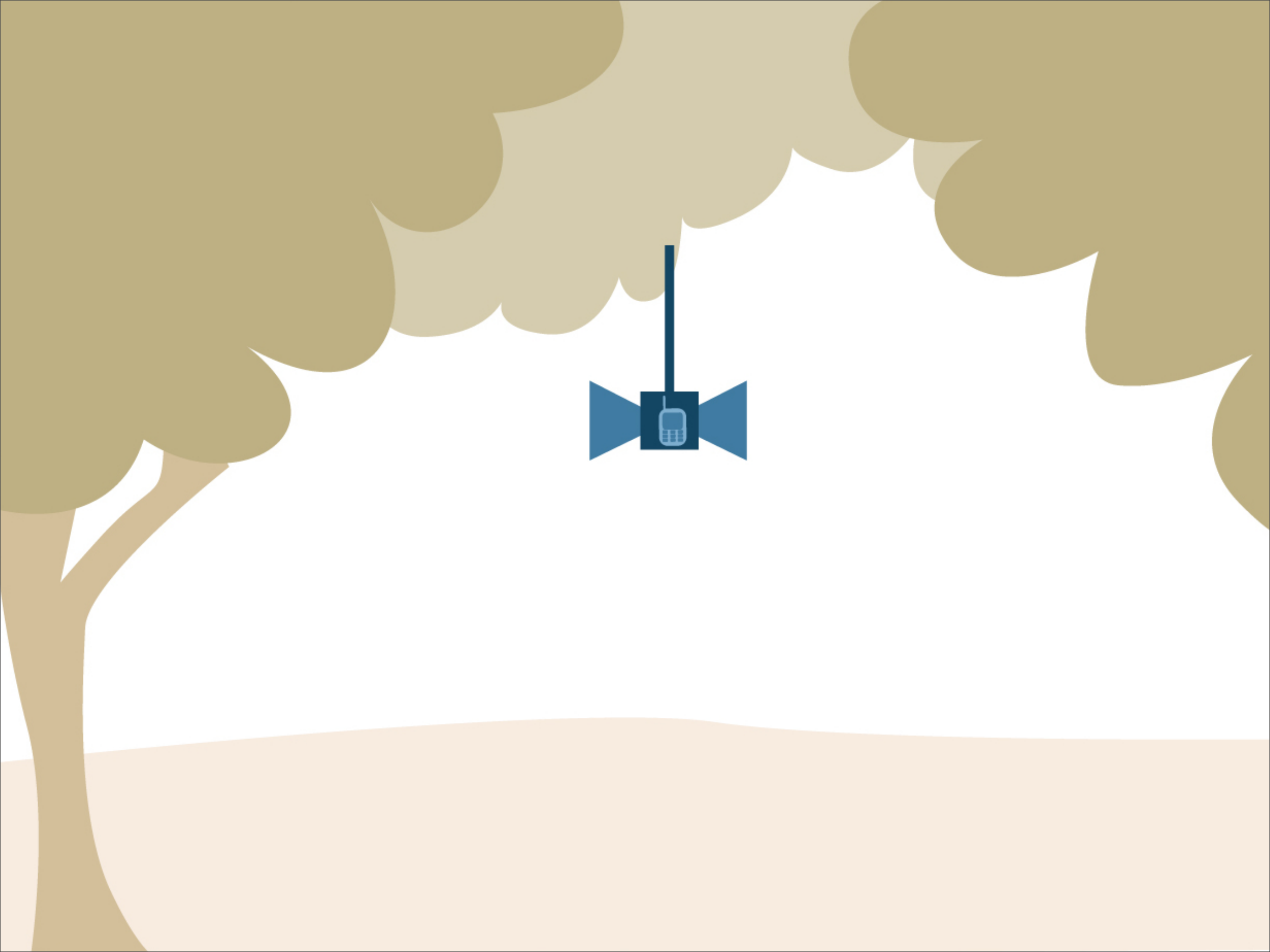
human-powered

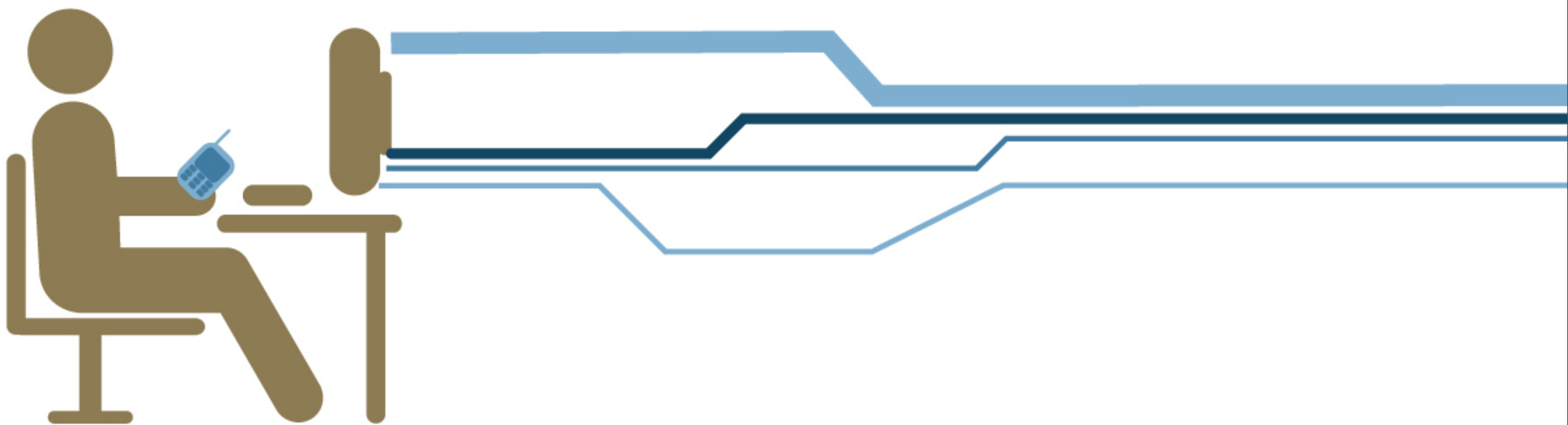


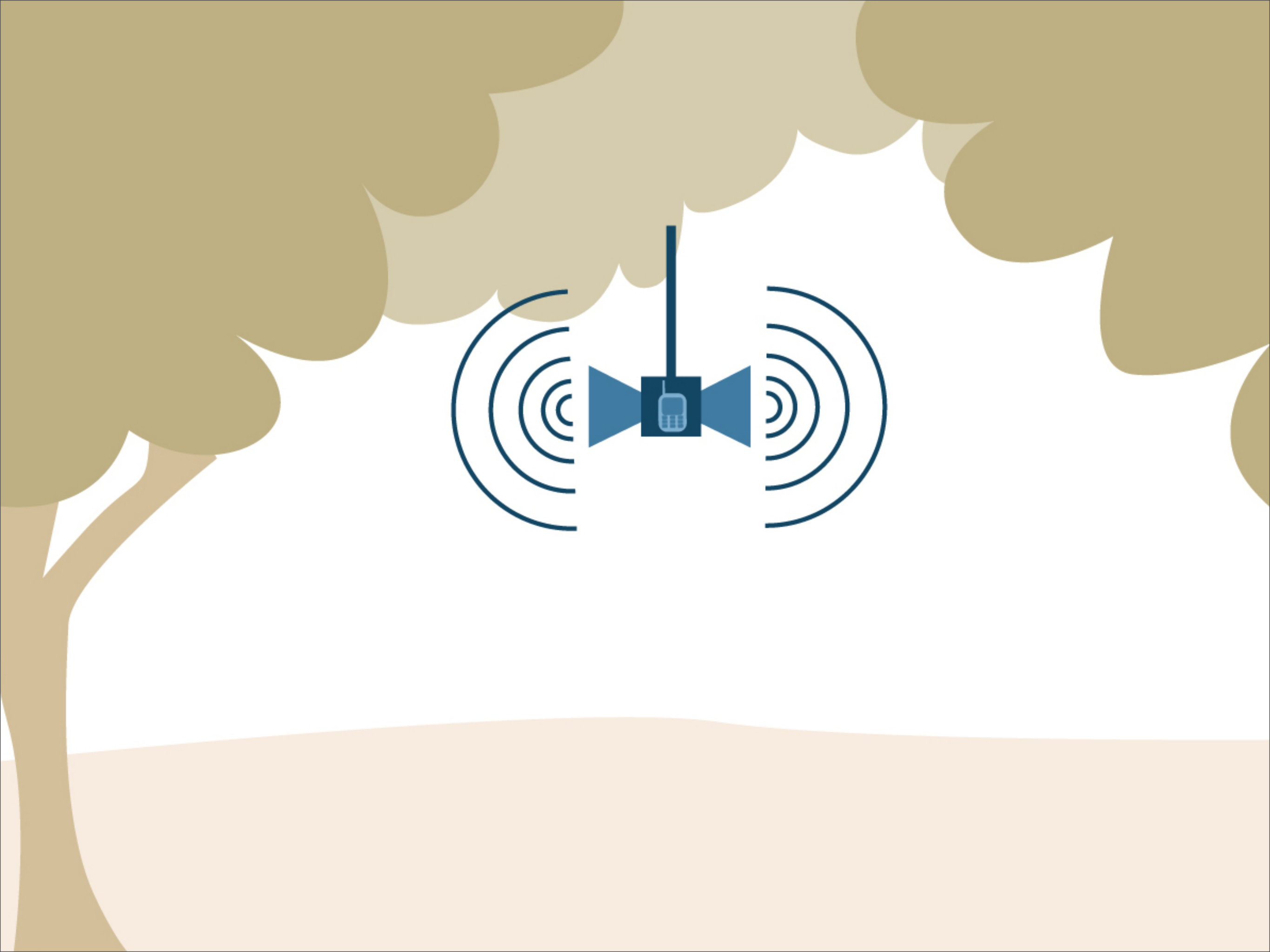


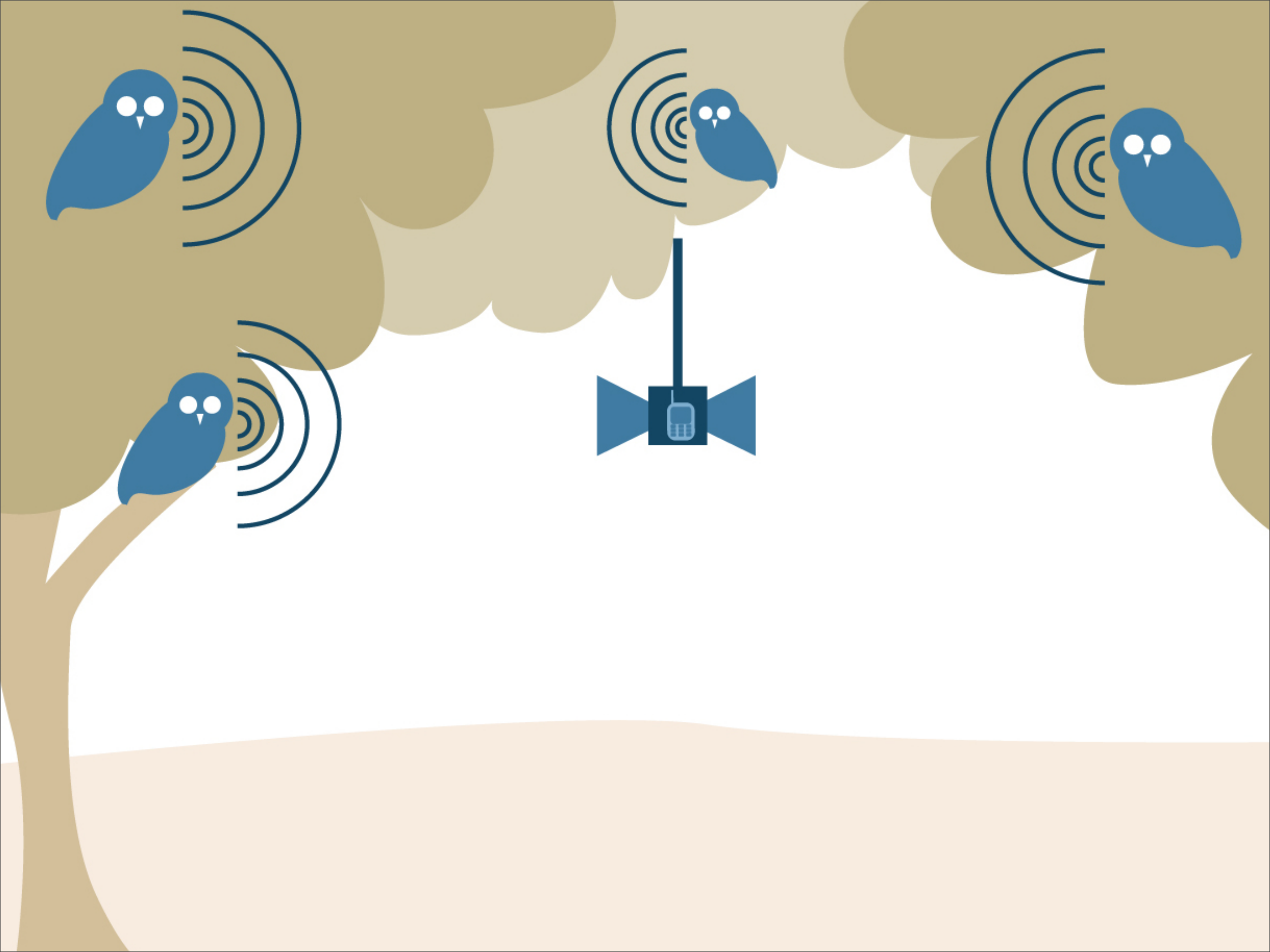
The Owl Project

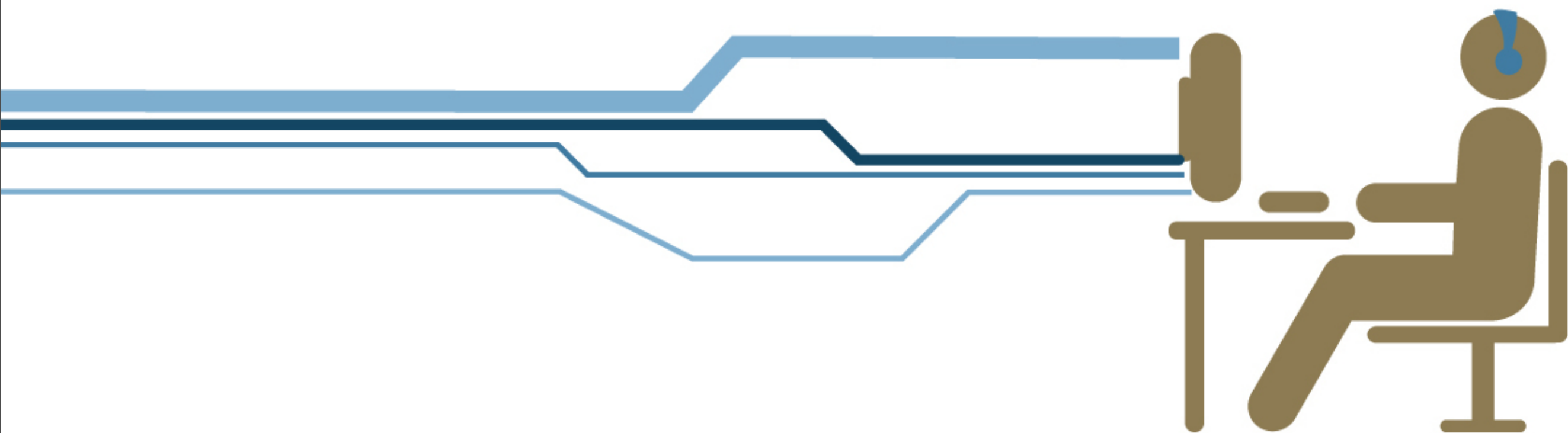




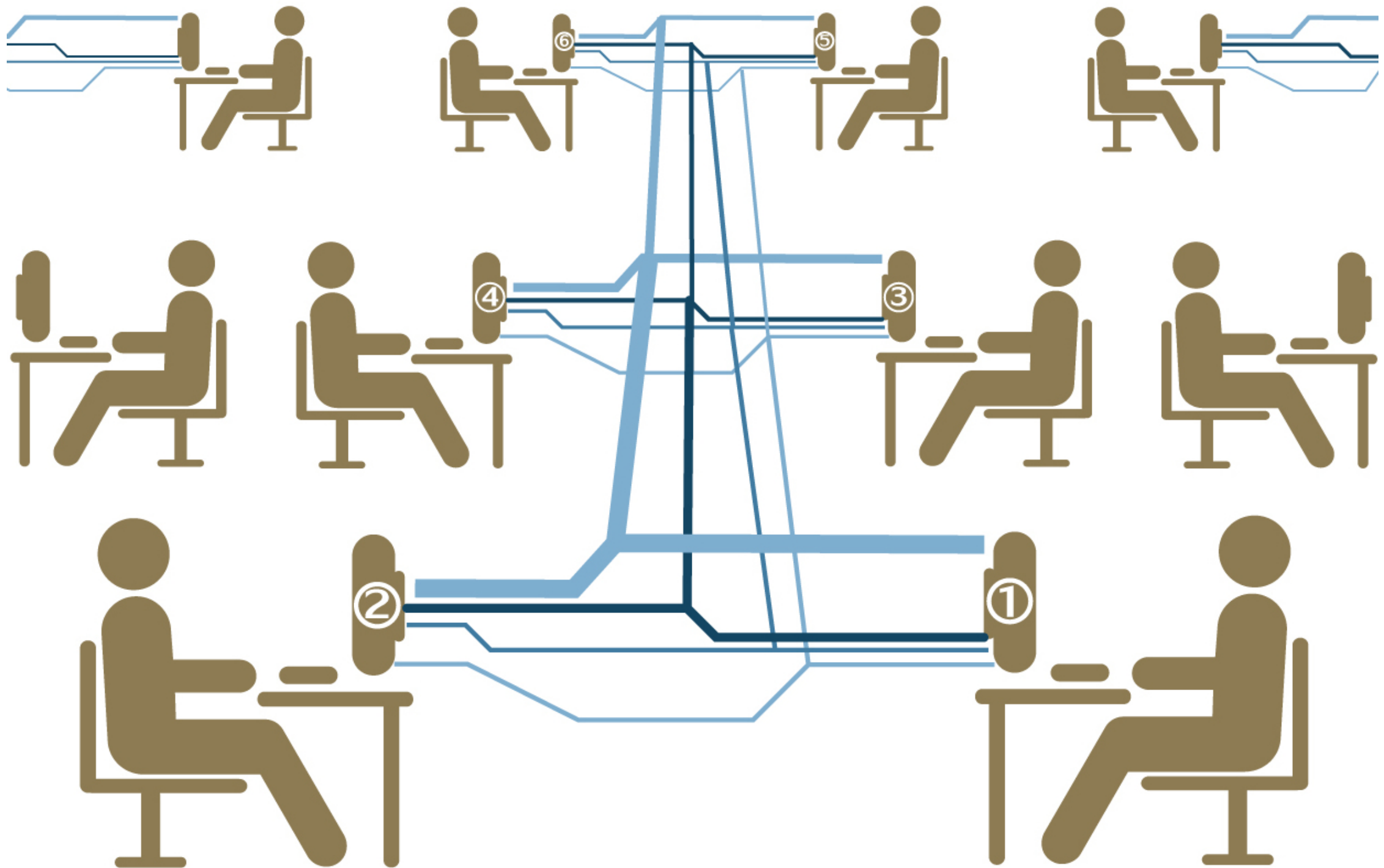


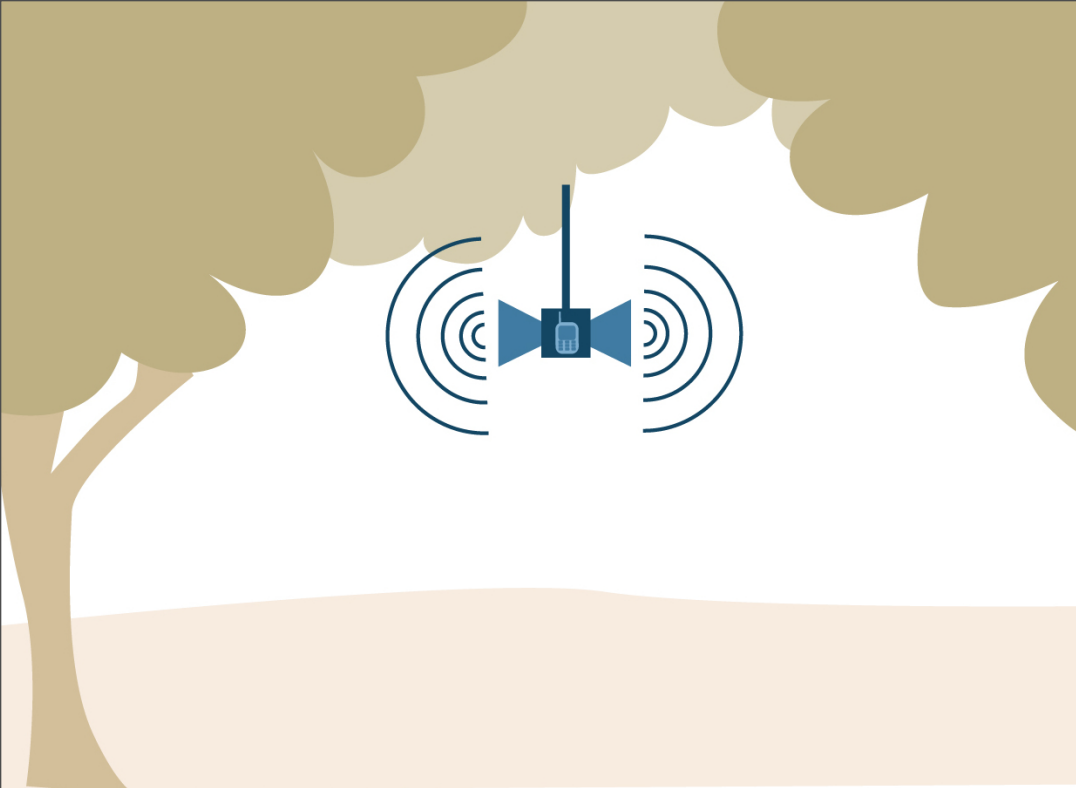






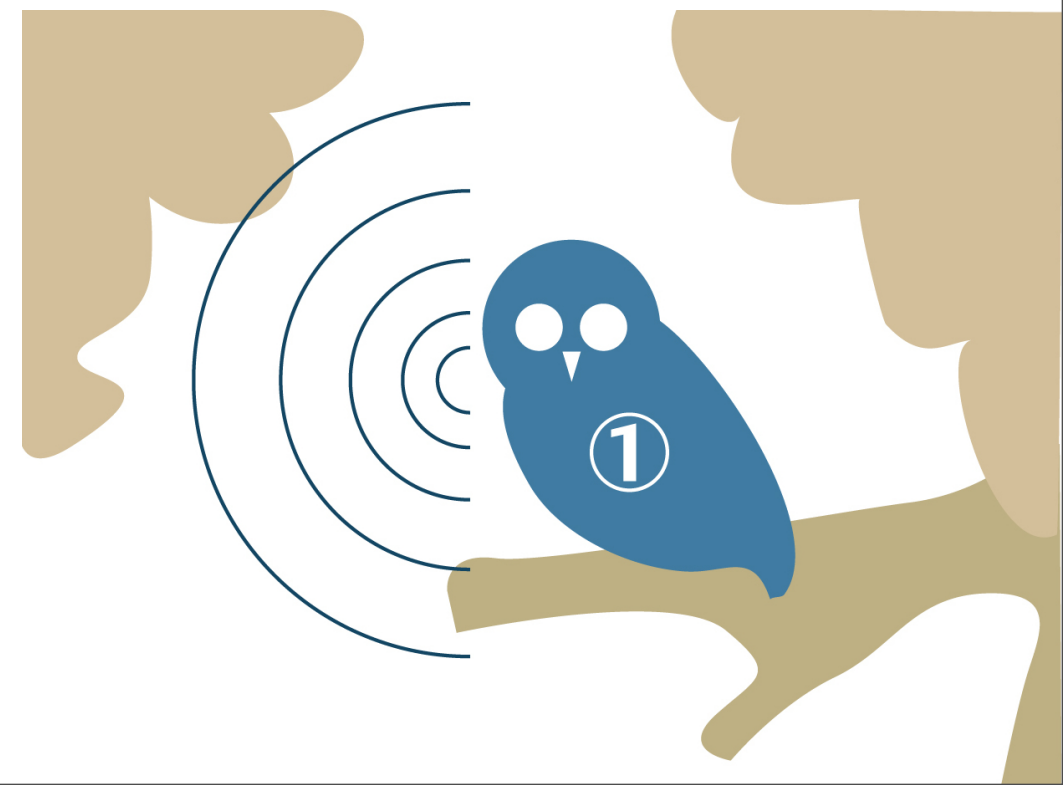
Collective Participation

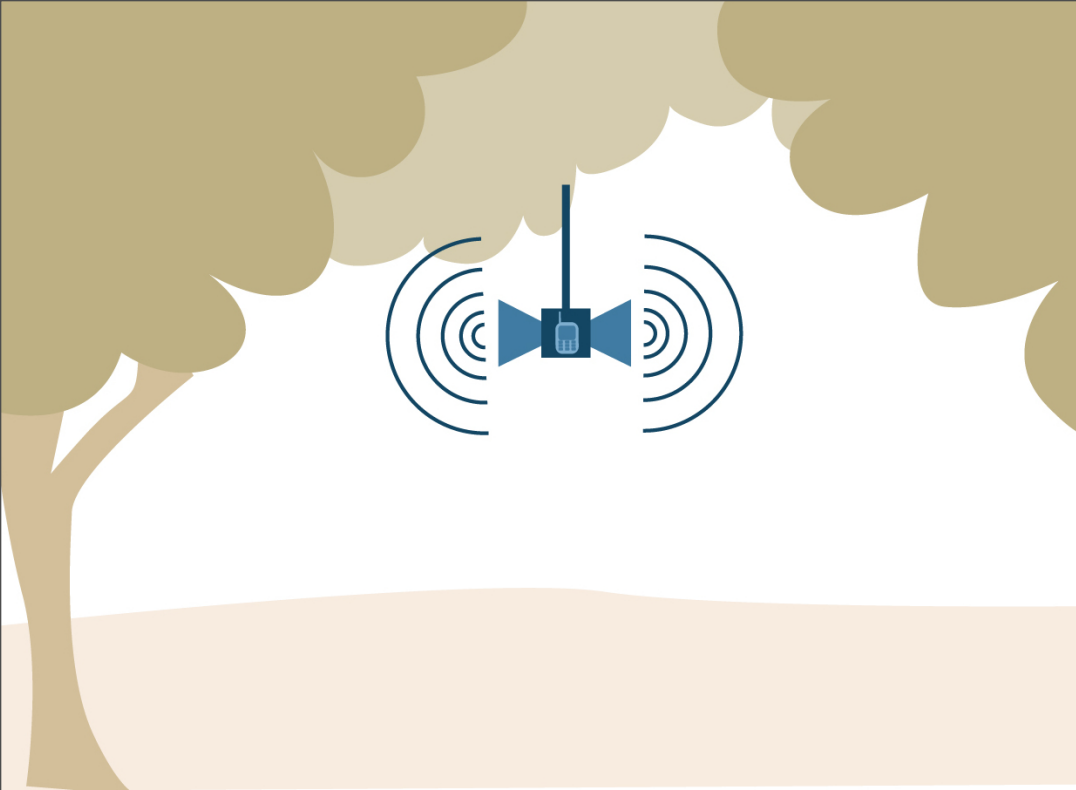




sample callback

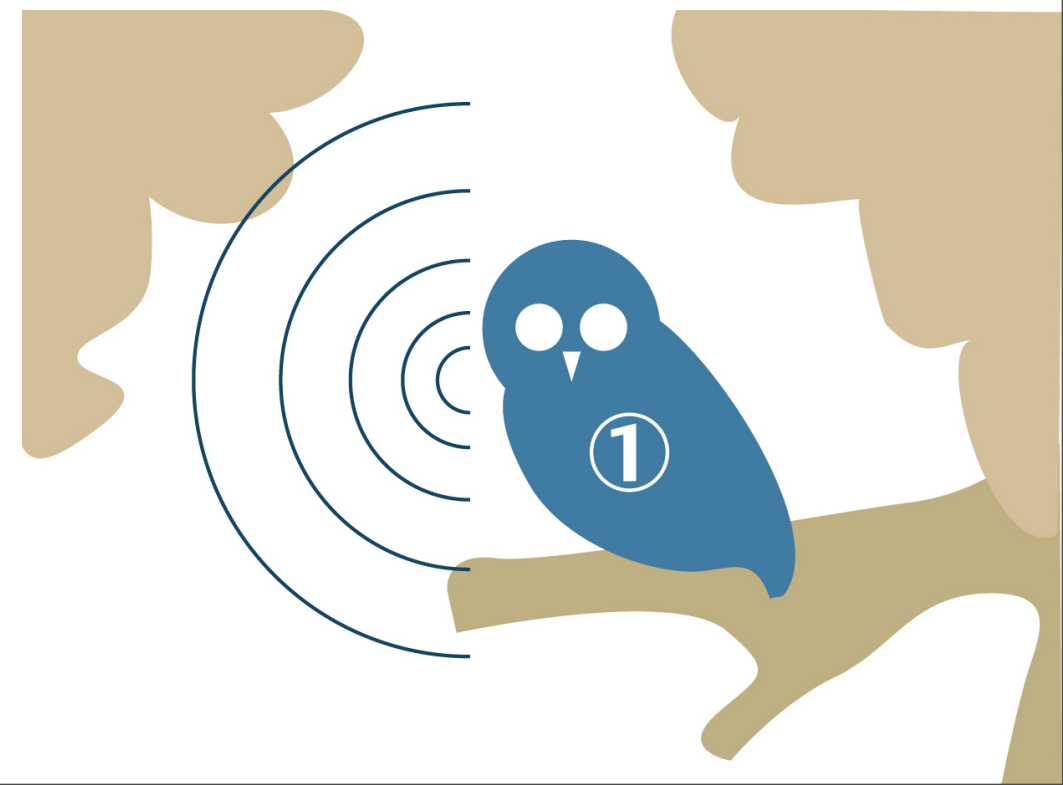
sample response

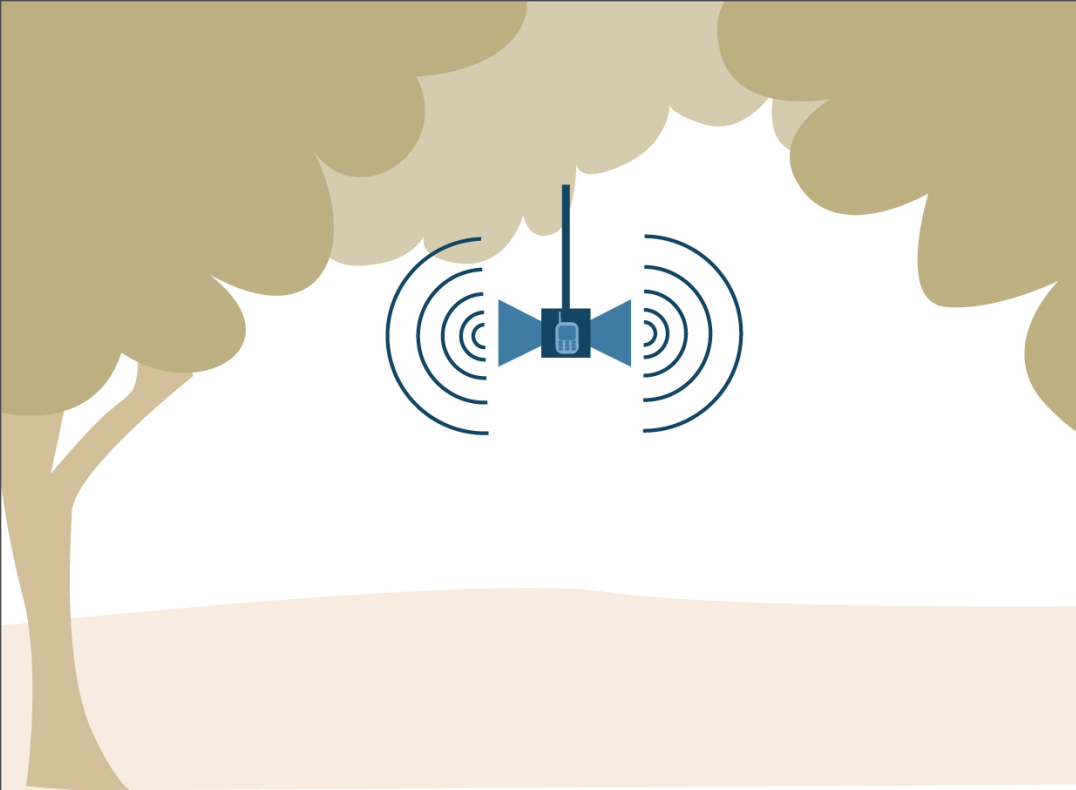




sample callback

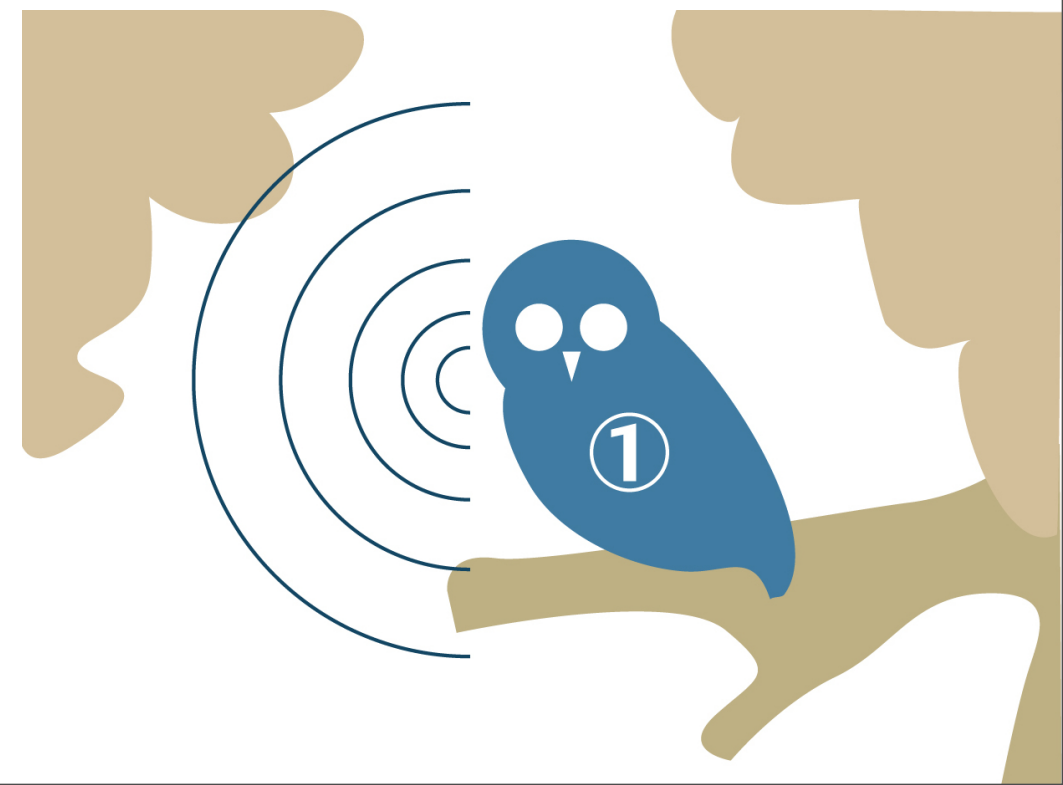
sample response

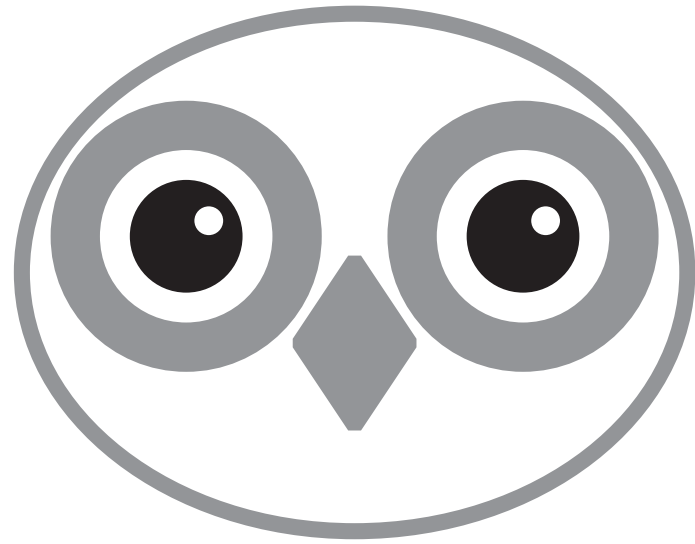




sample callback

sample response

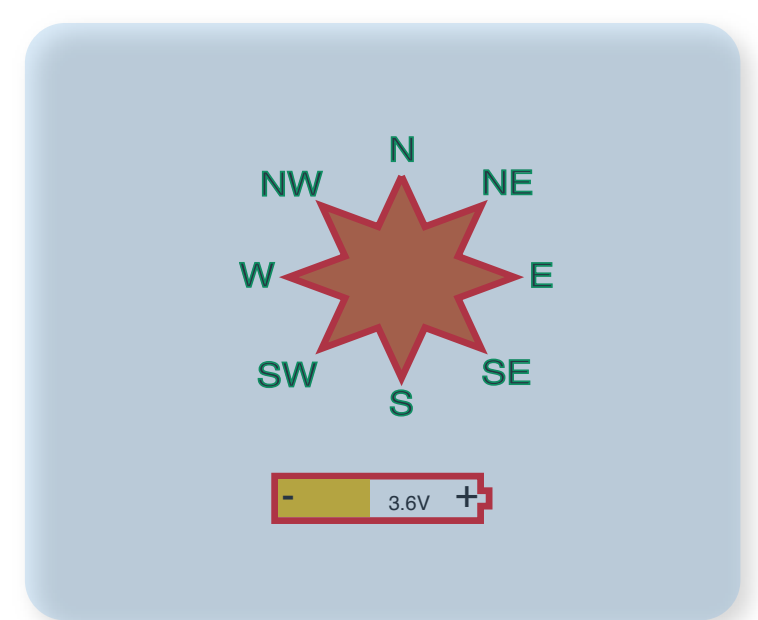
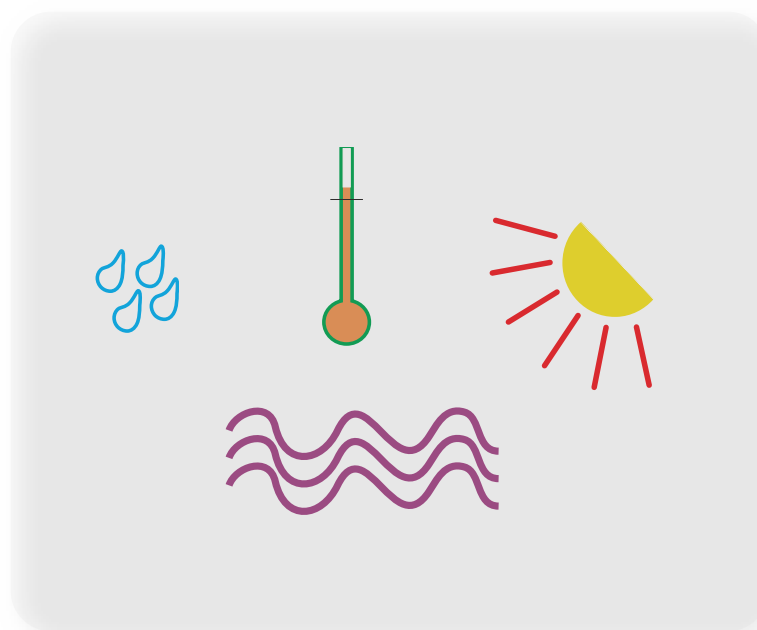
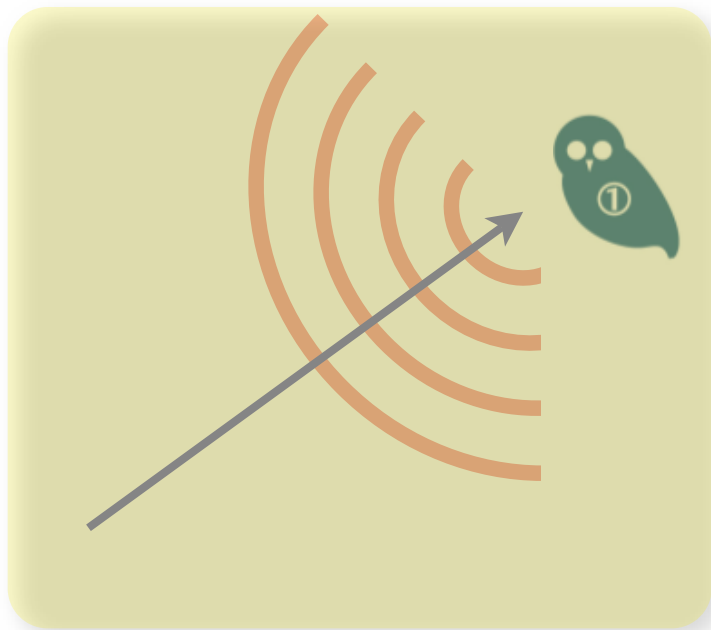




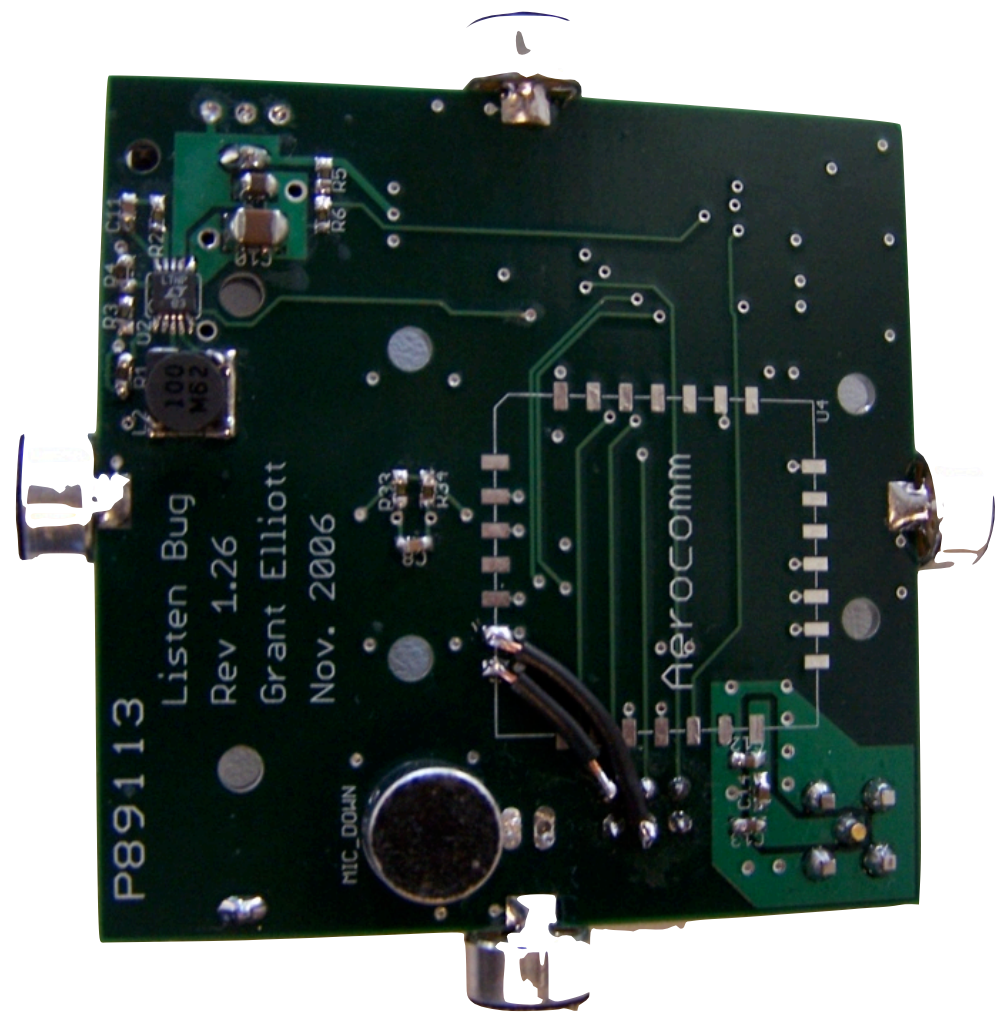
TECHNOLOGY



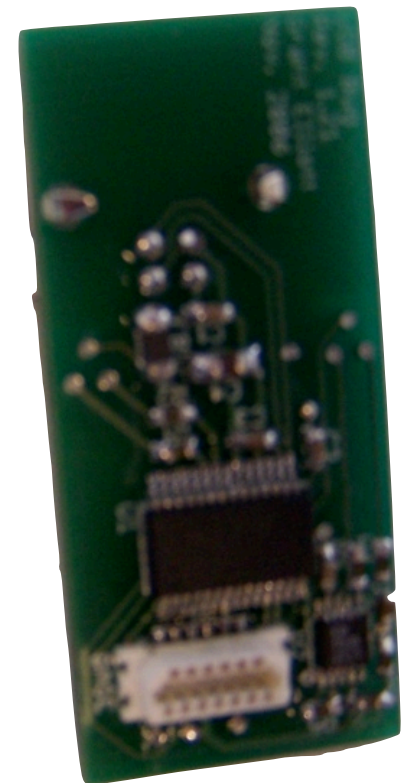
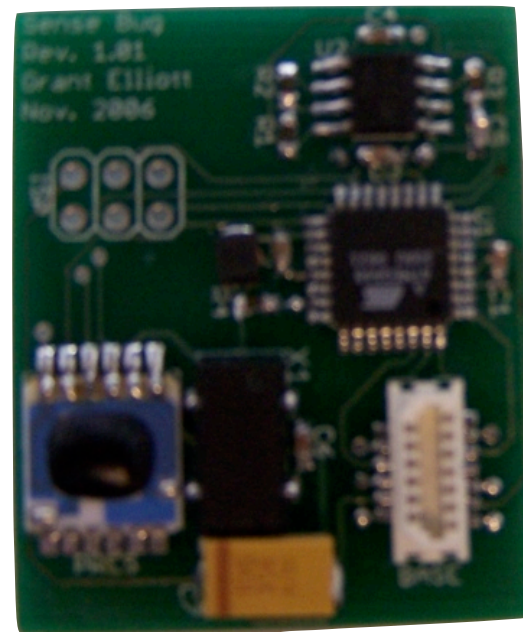
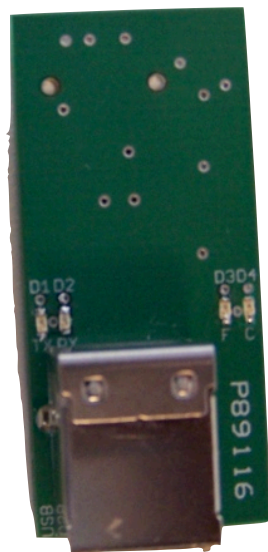
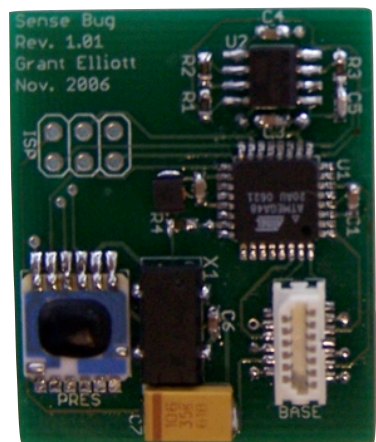
- mobile telephone sensing
- network data aggregation
- interaction web interface
- voice over IP controls



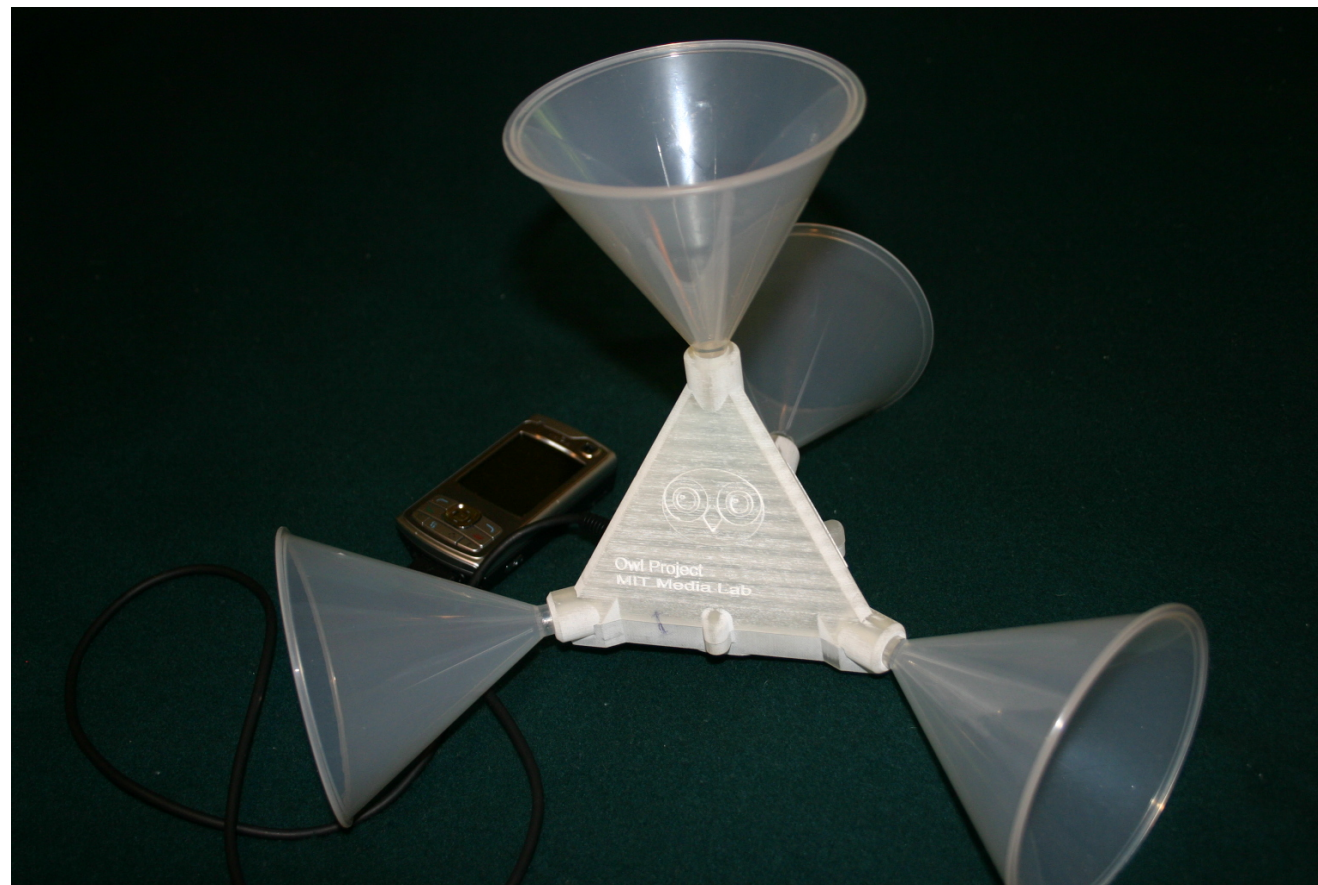
hanger & phone



ad-hoc
(radio) network

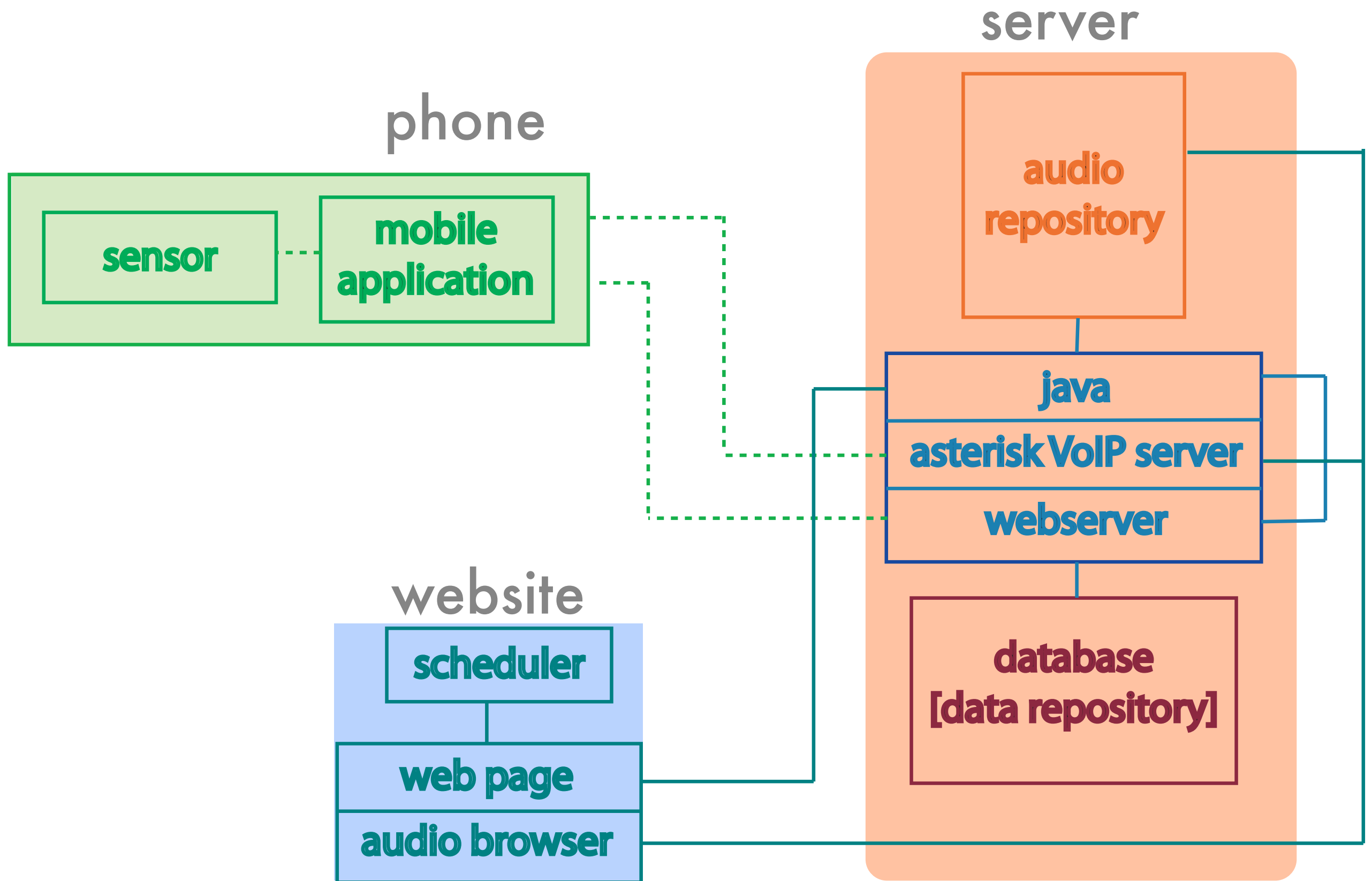


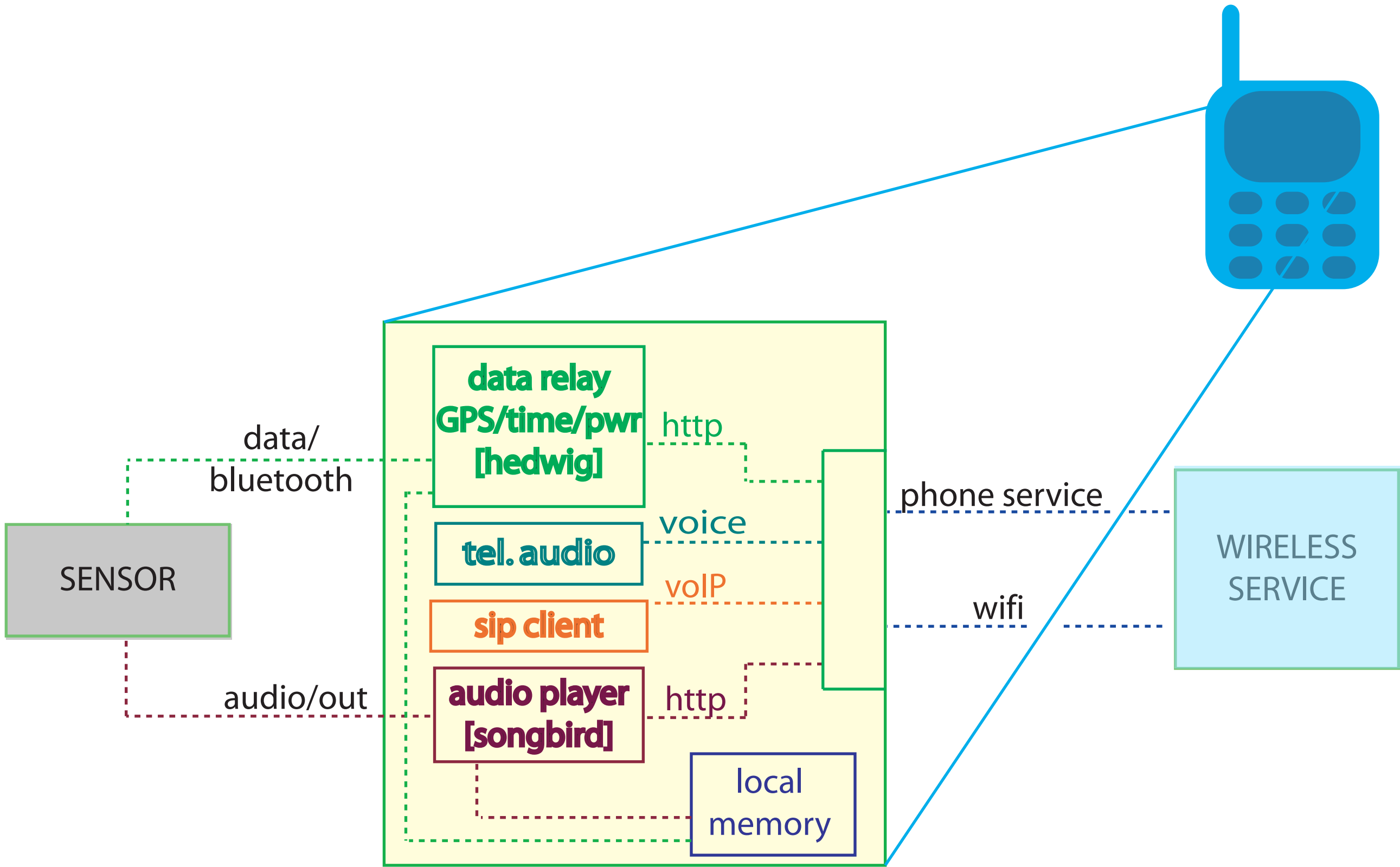
3D-printed enclosures







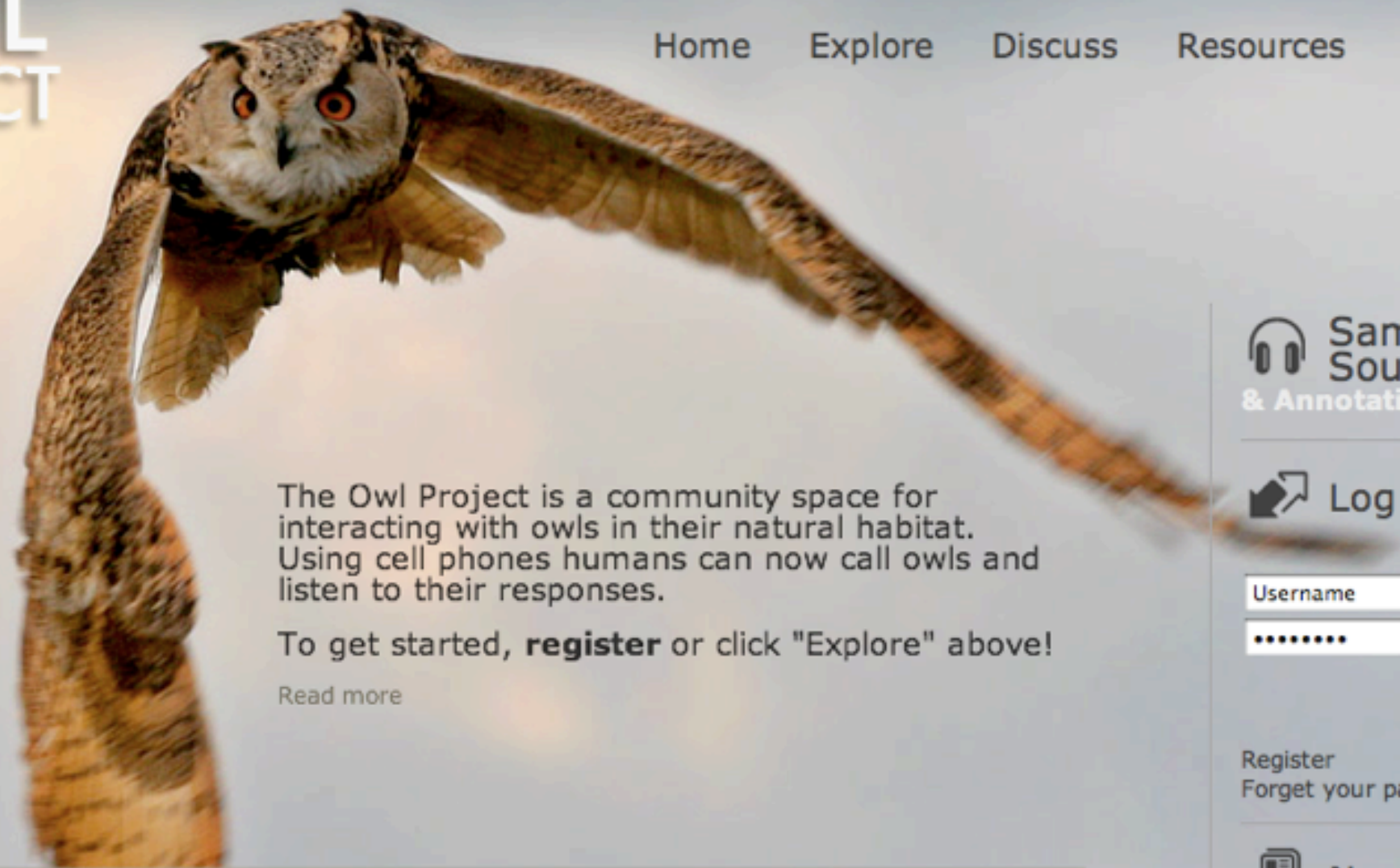




THE OWL PROJECT

MIT Media Lab


Home Explore Discuss Resources About




The Owl Project is a community space for interacting with owls in their natural habitat. Using cell phones humans can now call owls and listen to their responses.

To get started, **register** or click "Explore" above!

[Read more](#)

 **Sample a Sound & Annotation**

 **Log In**

[Log in](#)

[Register](#)
[Forget your password?](#)

News

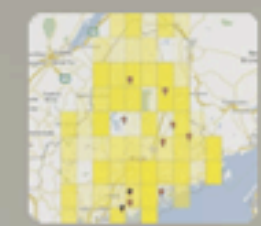
- 27 / 02 / 08
IEEE Spectrum Radio Program
- 26 / 02 / 08
Calling long distance
- 26 / 02 / 08
Hootenanny
- 26 / 02 / 08
Cell Phone Project Counts Owls Through Call and Response

Owl Sounds



Sample the latest owl recordings.
[Read more](#)

Owl Mappings



Navigate owl environment recordings on a map.
[Read more](#)

MIT Media Lab

View

Aviary

Scheduler

Aviary

September '06

October '06

November '06

<

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+

-

Drag a marker to the map to hear sounds.

Speakers:

Refresh

Map

Satellite

Hybrid

Local speaker 1







Channel added

Login Log In

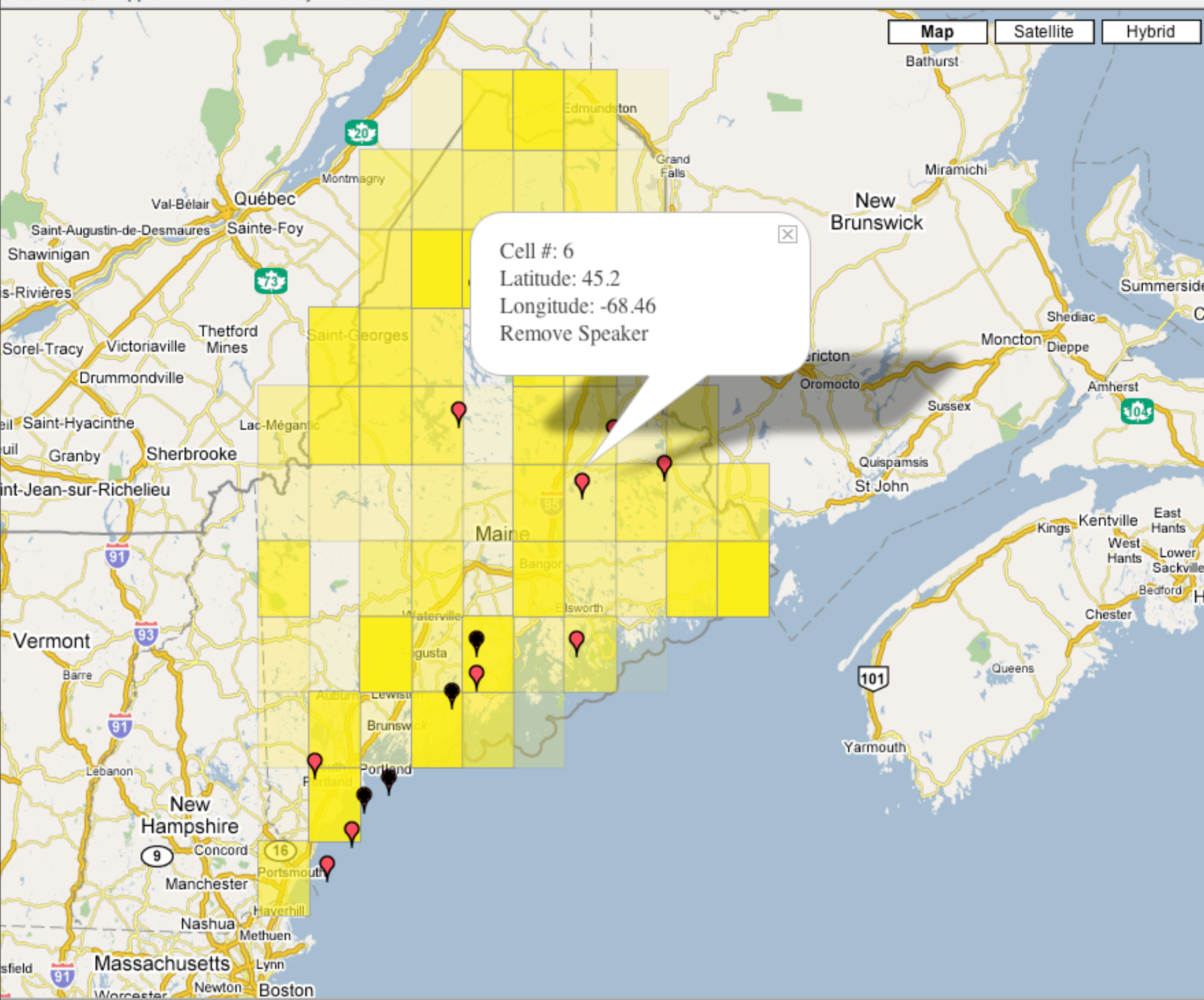
Username

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Hootenanny
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Cell Phone Project Counts Owls Through Call and Response



Select Grid

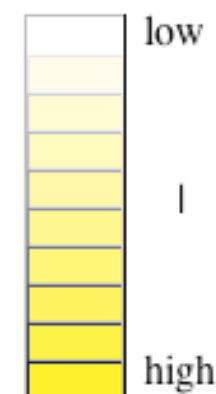
Owl Sightings

Cell Phones:

☒ Planned Locations

☒ Actual Locations

Grid Key



Speakers

1 2 3
6 ☐ ☒ ☐

Play Audio

THE OWL PROJECT

MIT Media Lab

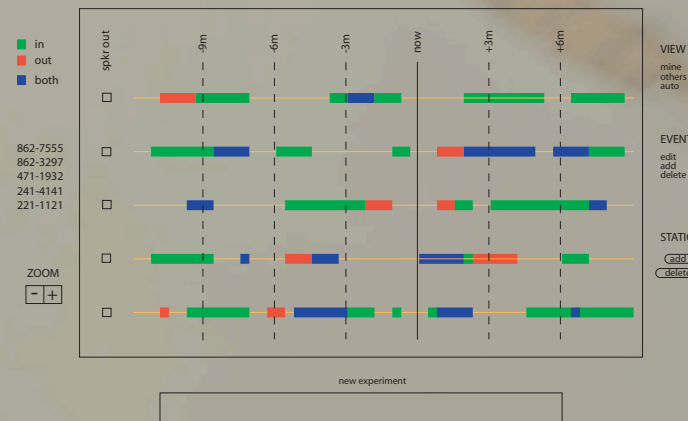
[Home](#) [Explore](#) [Discuss](#) [Resources](#) [About](#)
[Aviary](#) [Scheduler](#)

New Task

Time: 03/06/2008 15:42:39

 e.g. now
 tomorrow noon
 +1 hour 30 min
 12/24/08 11:59pm

Phone: 6174525635

Tasklet: playtest 

Scheduled Experiments

	Tasklet	Start time	Phone	
Upcoming	barred3x	Mar 23, 2008 at 04:20 AM	16174525635	Edit Delete
Completed	playtest	Mar 4, 2008 at 01:06 PM	3096775	Edit Delete
	playtest	Mar 4, 2008 at 10:42 AM	6174525635	Edit Delete
	playtest	Mar 4, 2008 at 10:41 AM	6174525635	Edit Delete
	playtest	Mar 4, 2008 at 10:40 AM	6174525635	Edit Delete
	playtest	Mar 4, 2008 at 10:30 AM	6174525635	Edit Delete
	playtest	Mar 4, 2008 at 10:00 AM	6174525635	Edit Delete
	playtest	Mar 4, 2008 at 02:08 AM	9784300827	Edit Delete
	rec15min	Mar 4, 2008 at 01:36 AM	9784300827	Edit Delete
	playtest	Mar 4, 2008 at 01:34 AM	9784300827	Edit Delete
	playtest	Feb 22, 2008 at 01:43 AM	15614790910	Edit Delete
	playtest	Feb 22, 2008 at 01:43 AM	13054672340	Edit Delete
	playtest	Jan 30, 2008 at 03:03 AM	16174525635	Edit Delete
	playtest	Jan 24, 2008 at 04:02 PM	16174525635	Edit Delete
	playtest	Jan 4, 2008 at 04:03 PM	16174525635	Edit Delete

Sample a Sound & Annotation

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Discuss

Forum

	Topics	Posts	Last post
Owls Owl biology, information, sightings, etc.			
Biology	0	0	n/a
Habitat and Global Warming	1	1	7 weeks 1 day ago by claud334
Owl Sightings	0	0	n/a
The Owl Project Forums related to the Owl Project.			
Owl Project Discussion Ideas, suggestions, or complaints about the Owl Project!	0	0	n/a
Website Issues Report and discuss website problems or suggest ideas!	0	0	n/a

[Login to post a new forum topic.](#)
 Sample a
Sound
& Annotation

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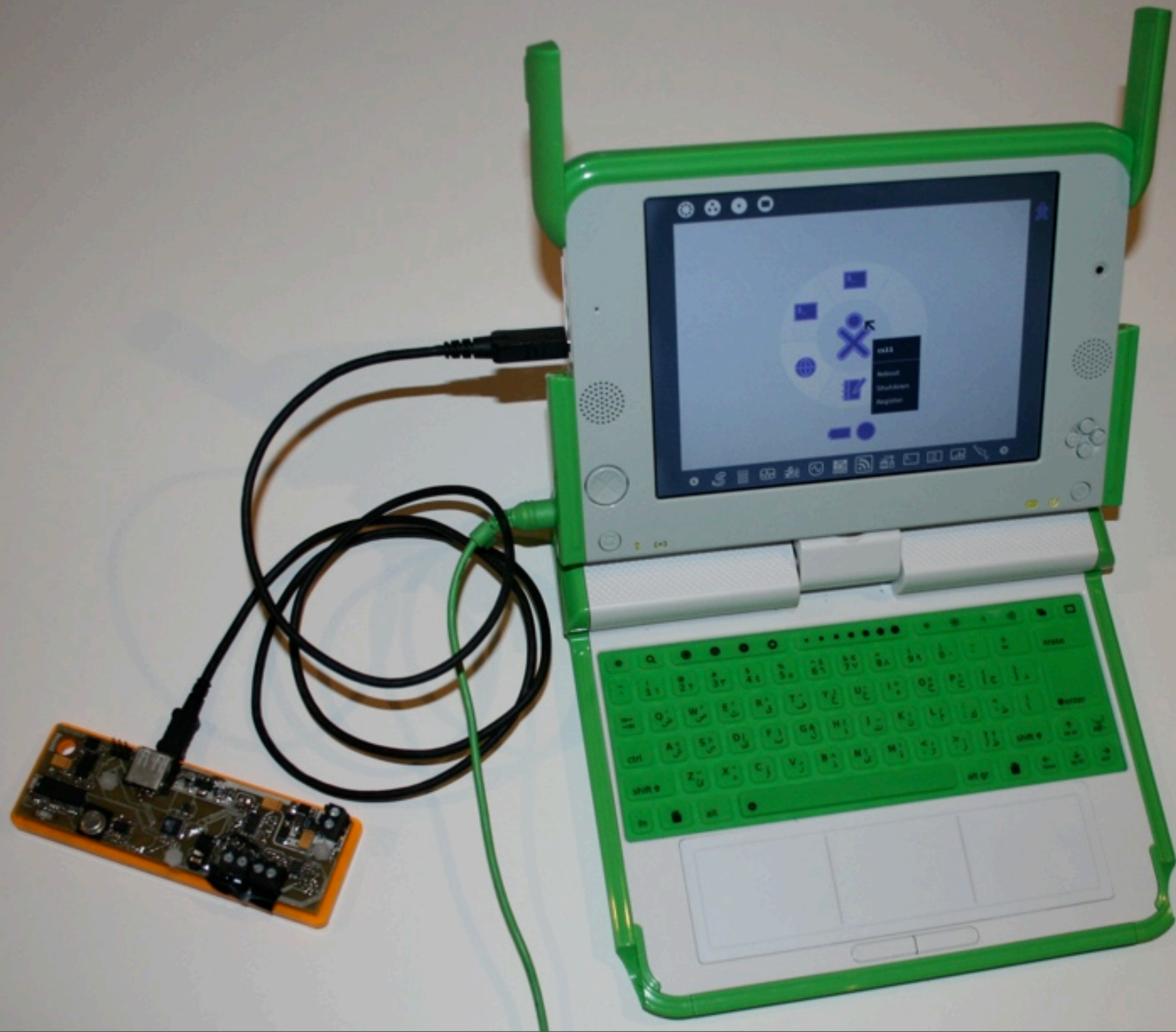
26 / 02 / 08

Cell Phone Project
Counts Owls Through
Call and Response



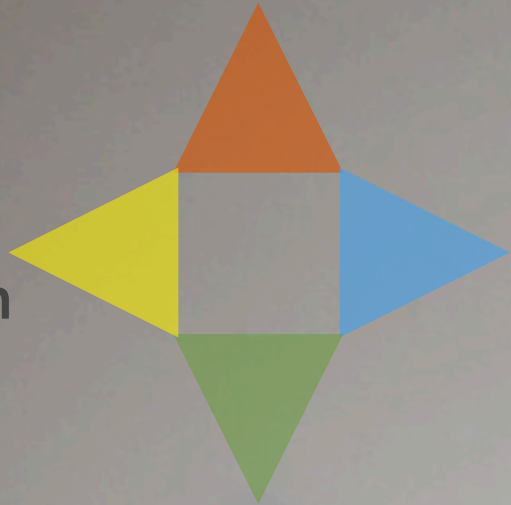


Edward Baafi



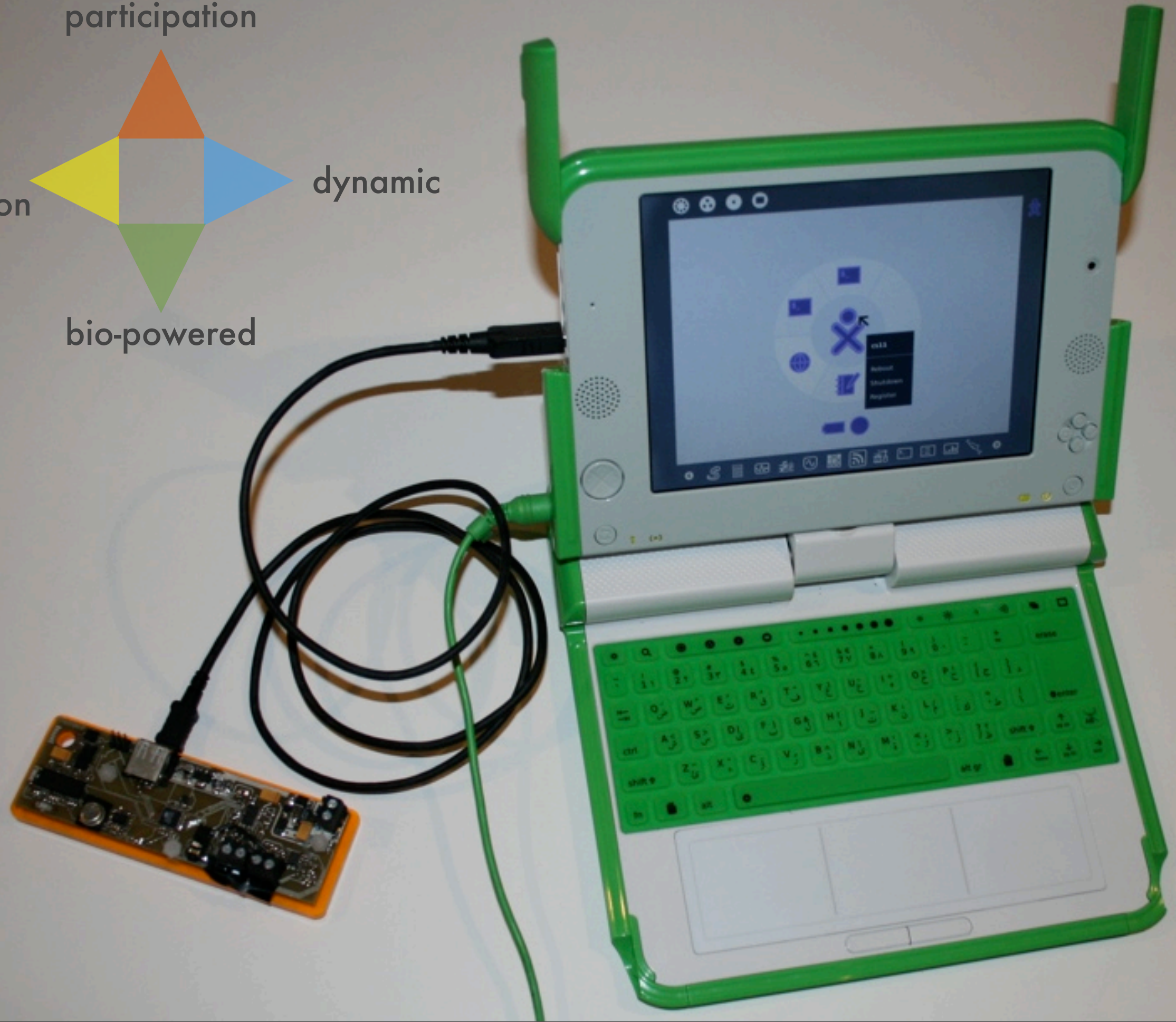
world
participation

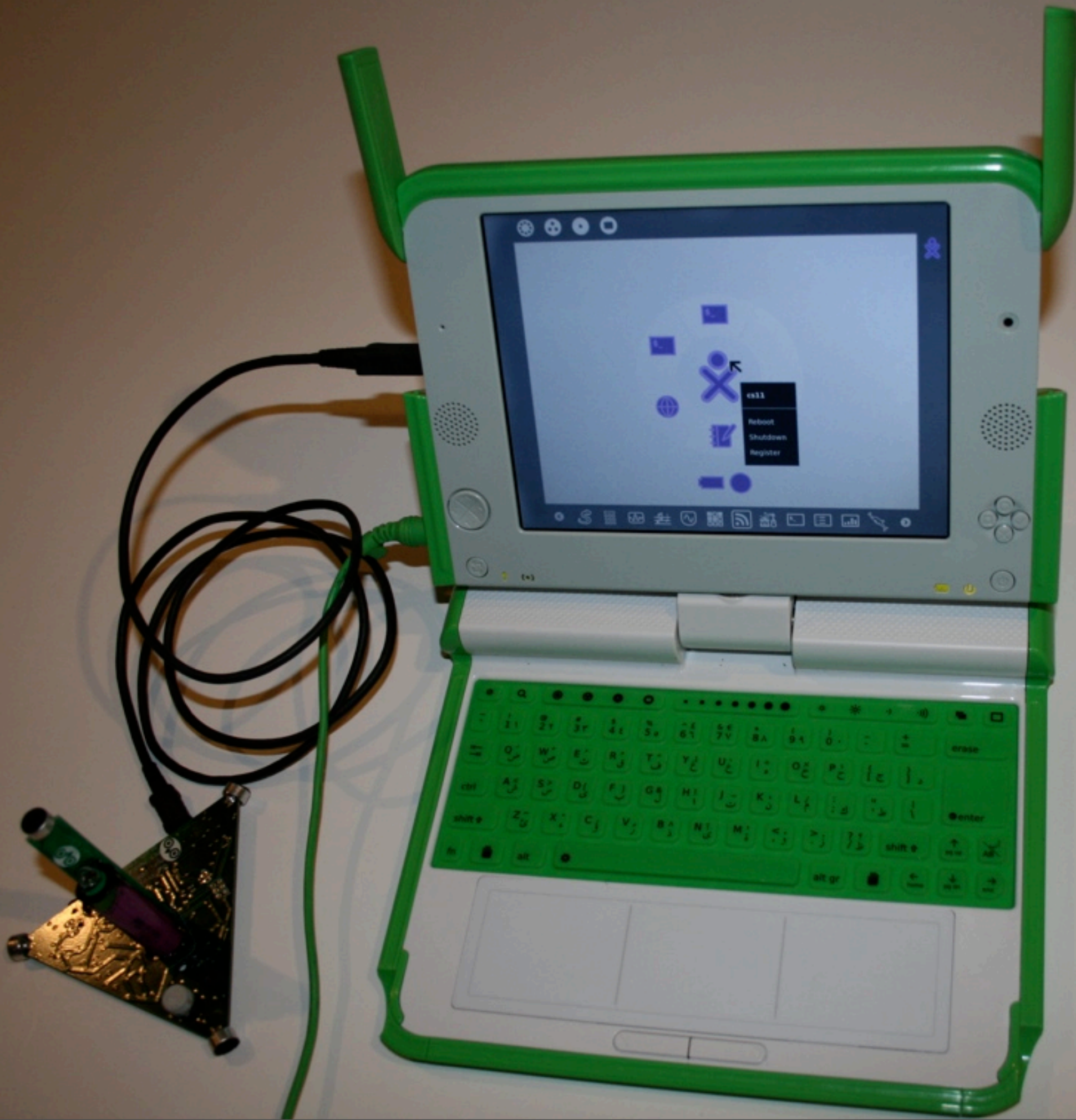
active
exploration



dynamic

bio-powered





An International Experiment

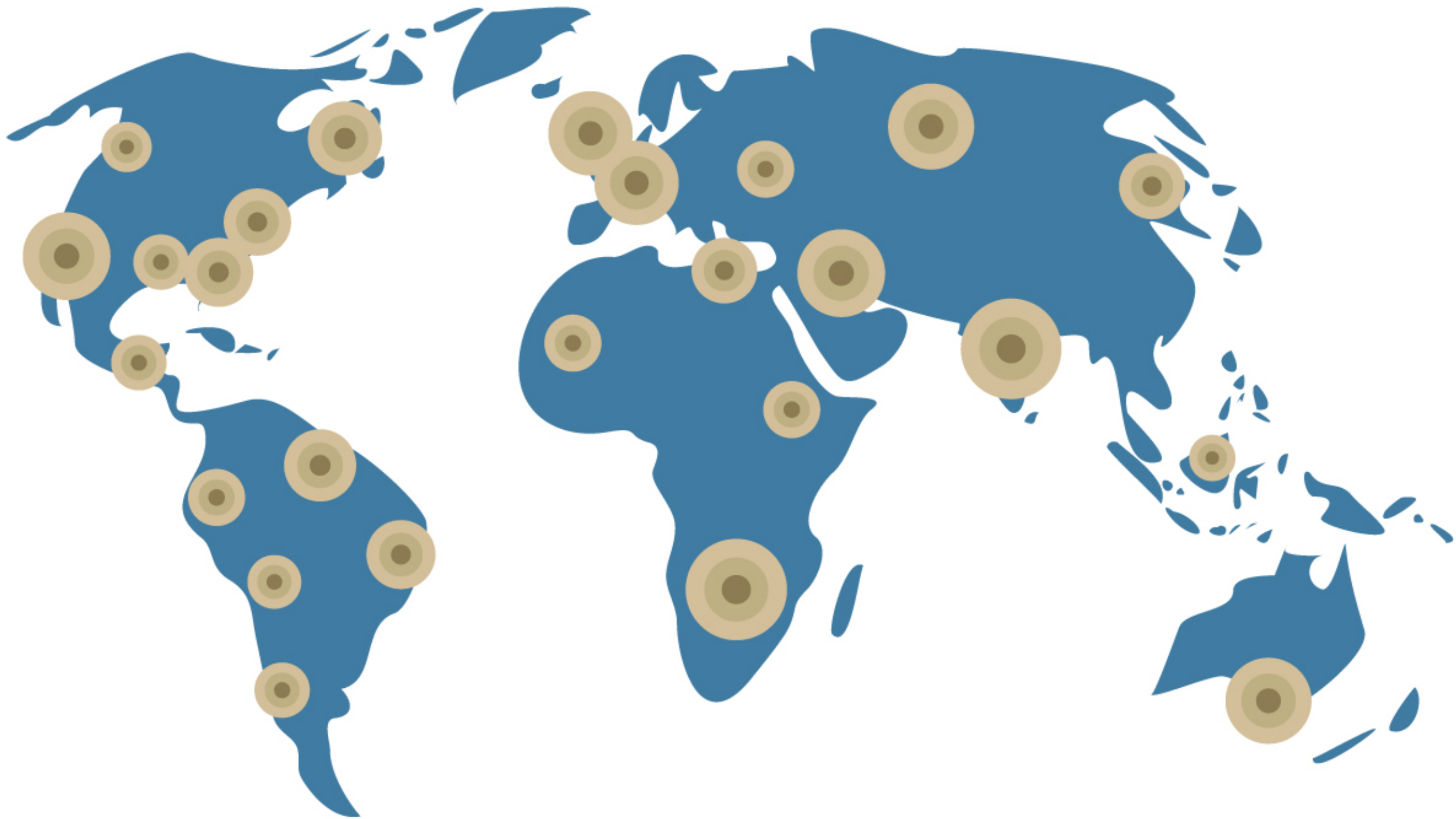


Schlumberger Excellence in Educational Development
Connecting experts to youth and youth to one another, worldwide

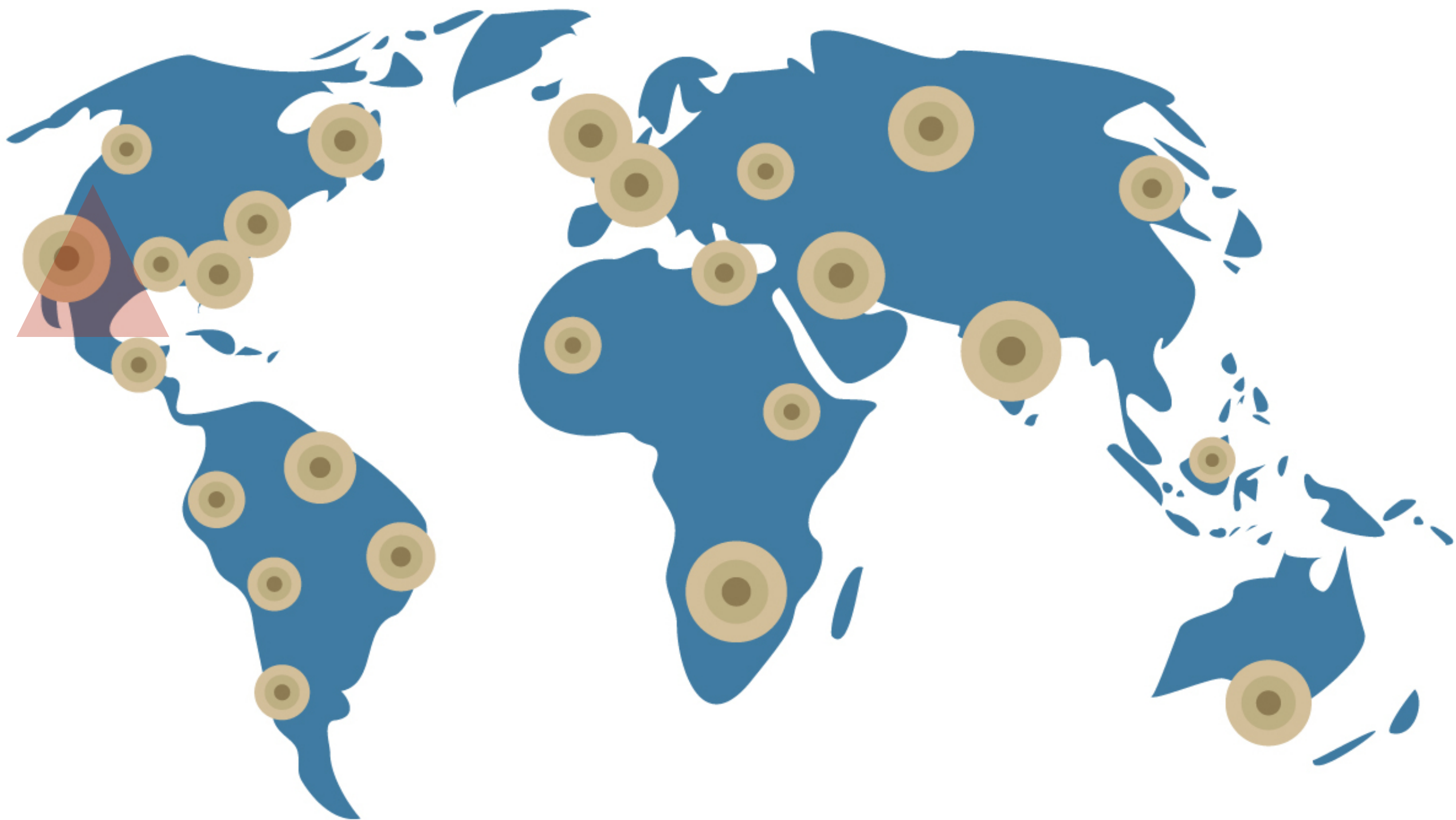


ECOmedia Education

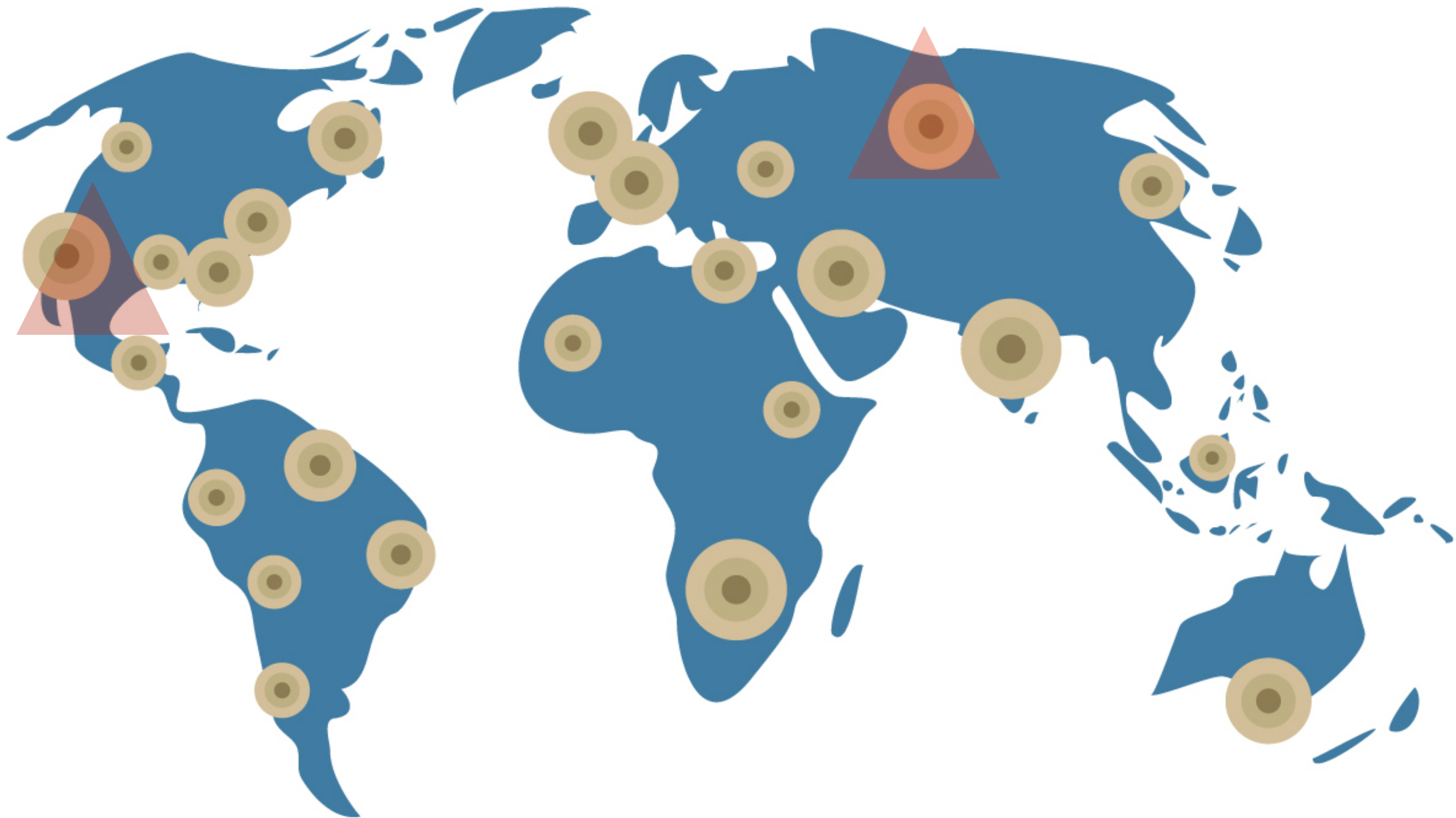
SEED Foundation



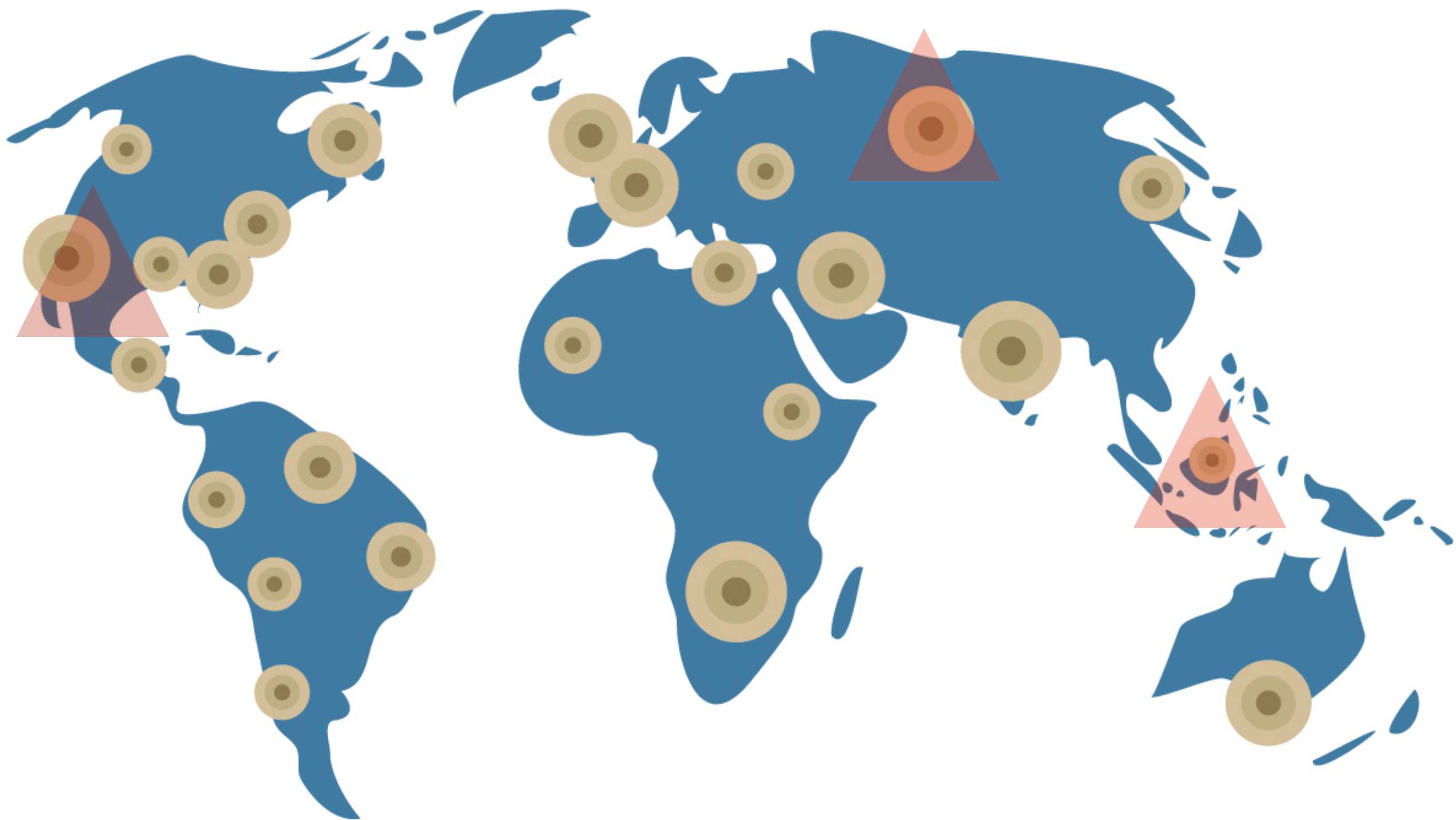
SEED Foundation



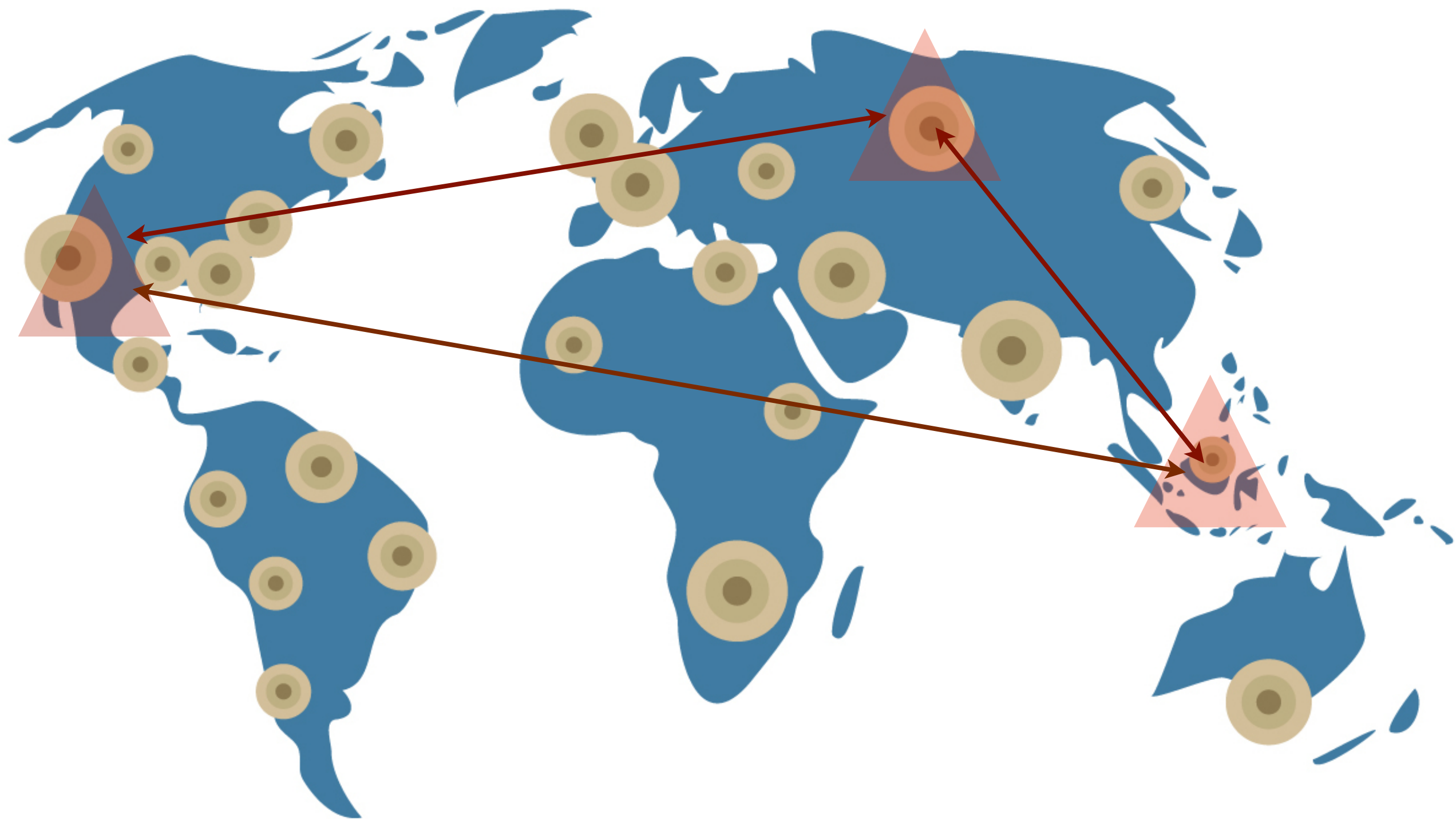
SEED Foundation



SEED Foundation



SEED Foundation



Public Health — *Malaria*



ECOBat
(class project)

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JULY 2007

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INSIDE
ALASKA'S
RAIN FOREST

MALARIA

Stopping a Global Killer



- passive listening
- active sonar

observe bats
assess mosquito population



More Public Health Contributions

- reporting platform
- remote measurements
- post disaster data

challenges to you

- coupling material access, simulation, experimentation and discussion
- provide local and global views
- extend the individual and collaborative capabilities
- go boldly ...
- voila!