

PEER Participants' Conference – Bangkok, Thailand

Utilizing Your PEER Partnership

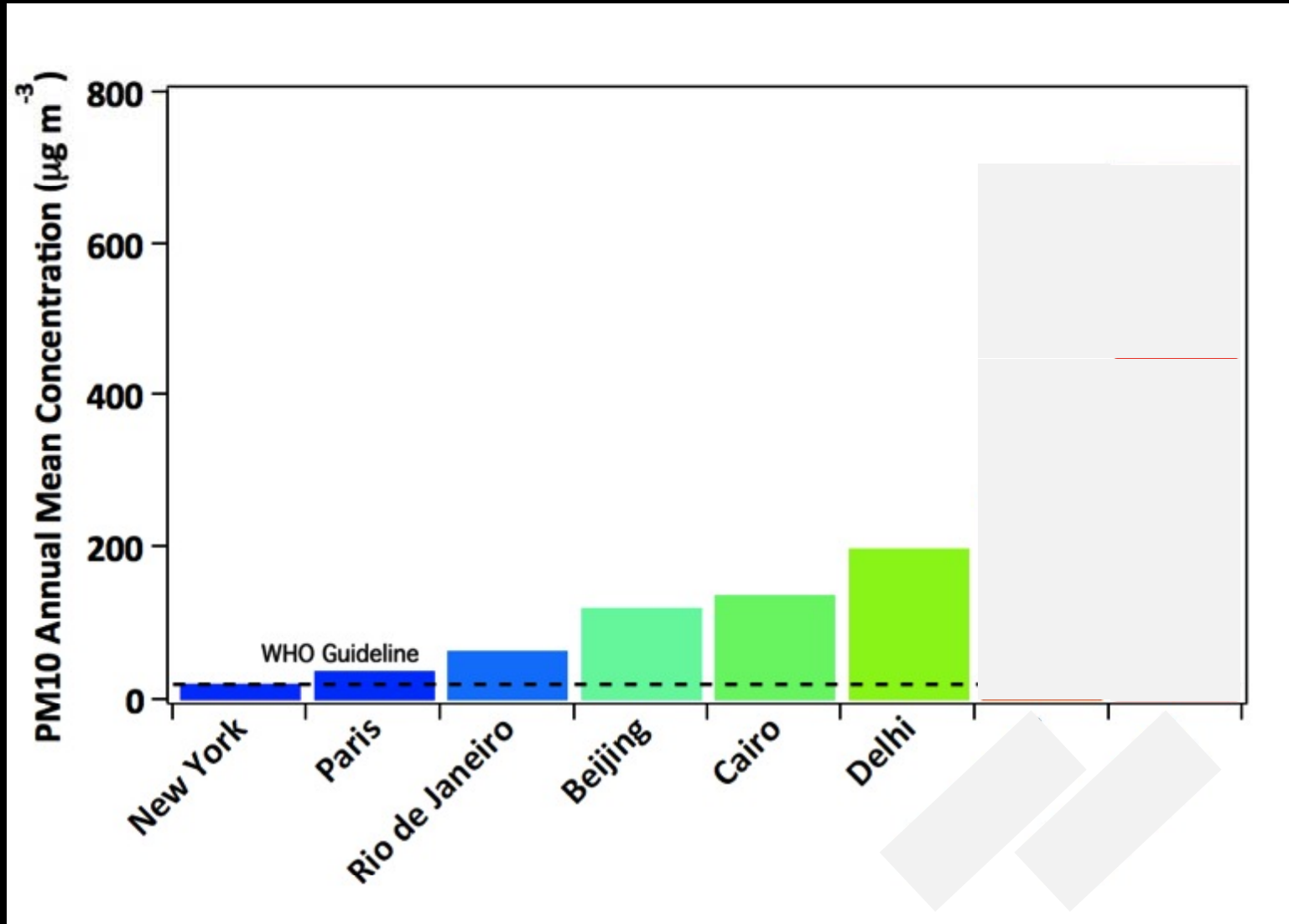
Ulaanbaatar in December 2011



Photo credit: Lauren Knapp

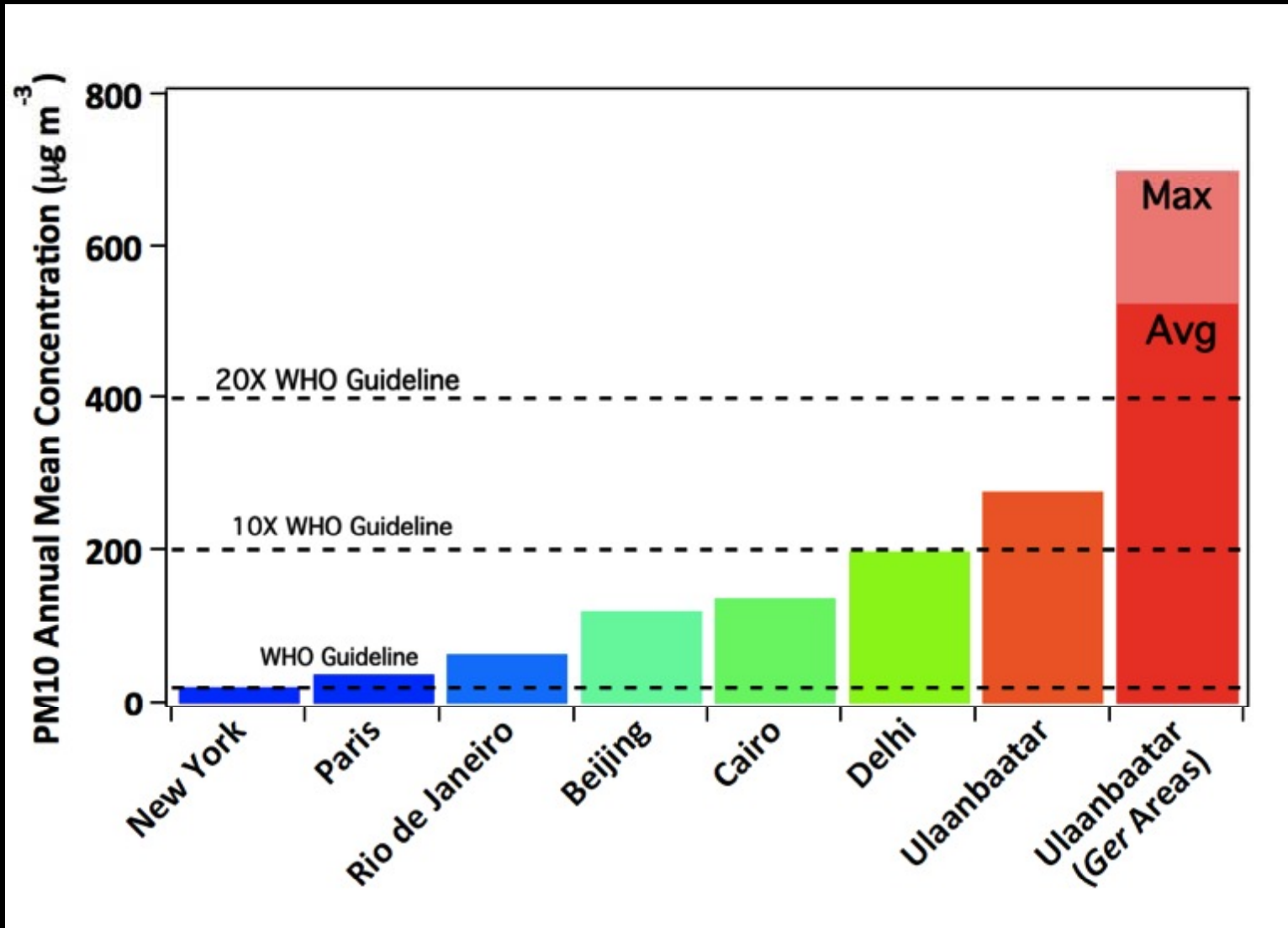
Christa Hasenkopf, PhD – University of Colorado
NSF Partner to Prof. S. Lodoysamba – Mongolia
USAID | Office of Science and Technology

Air pollution in Mongolia's capital city



*From 2011 WHO Outdoor Air Pollution Database and Dec 2011 WB report:
Air Quality Analysis of Ulaanbaatar*

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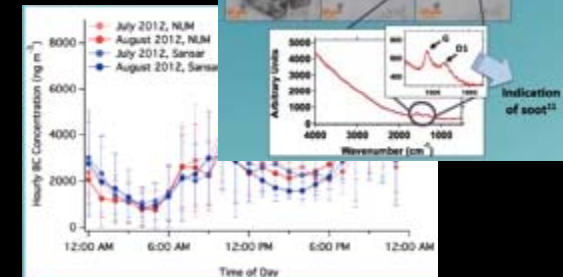
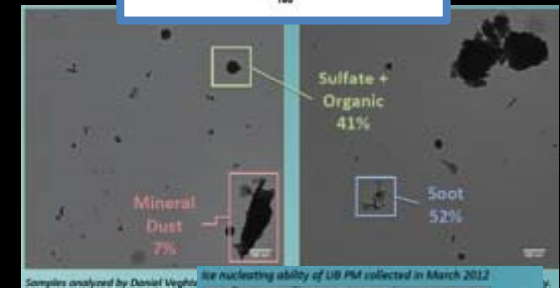
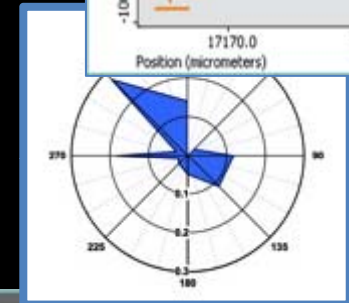
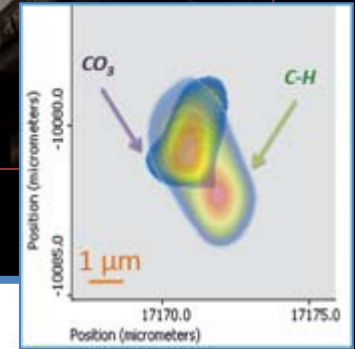
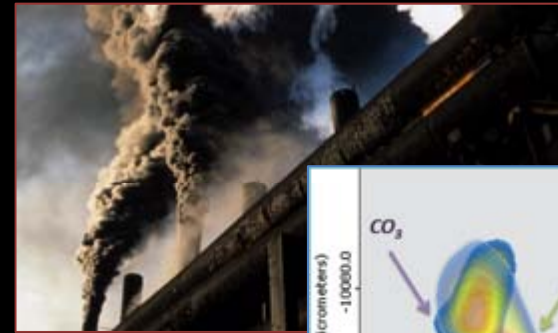
Our Research Questions:

What is the pollution made of?

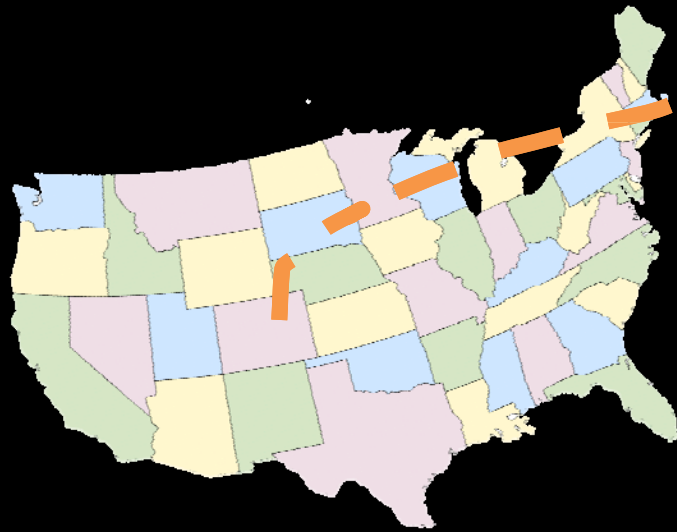
Where does the pollution come from?

How does concentration of pollution change with time?

How does UB PM affect regional climate?



Our PEER Partnership timeline



Russia

China

Mongolia

Ulaanbaatar

Timeline:

2010

Fulbright
Scouting trip



2011-2012

Fulbright

2012-2013

NSF PI

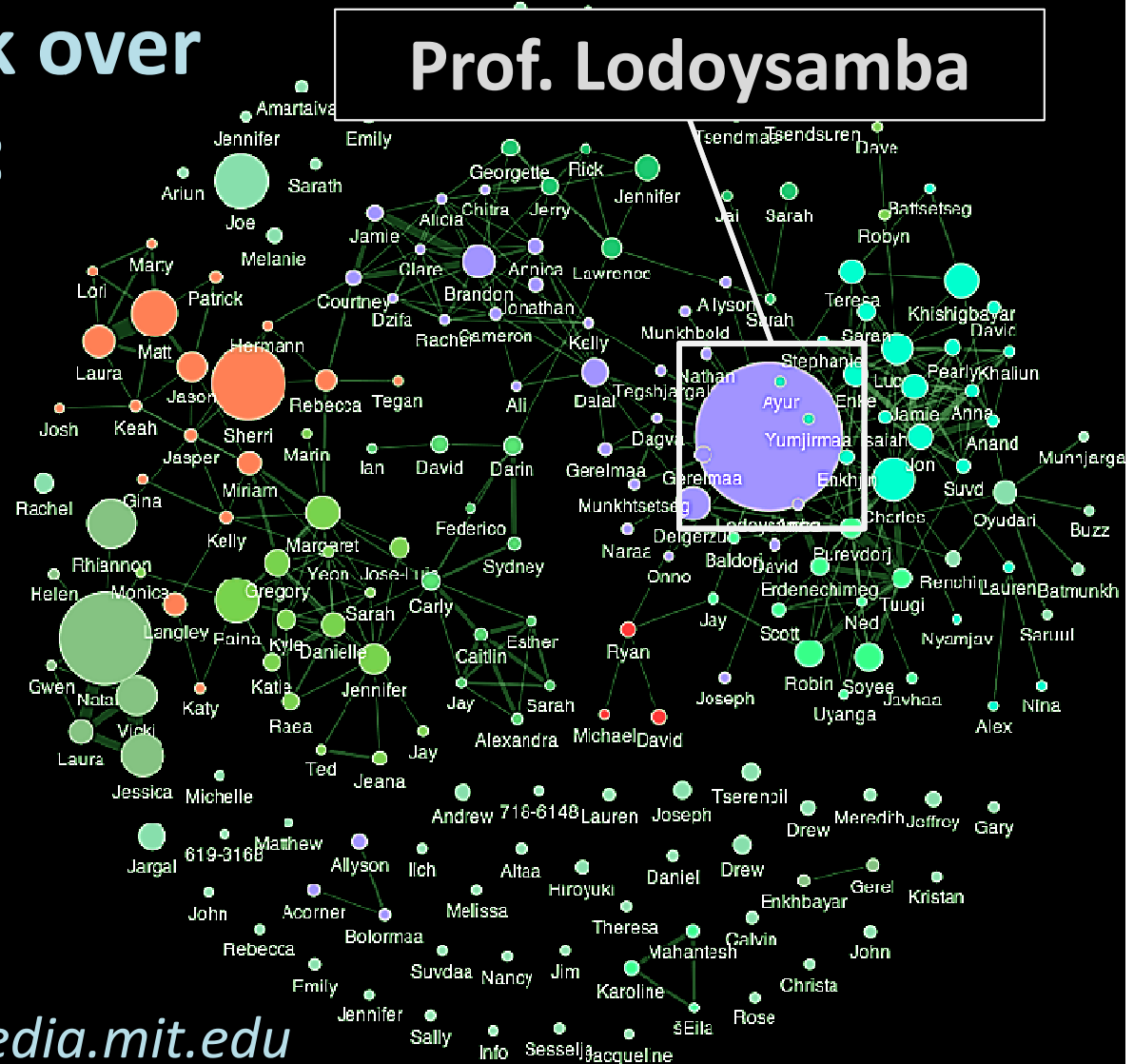
+ PEER

← Collaboration with Prof. Lodoysamba →

How we communicate:

My email network over the last 6 months:

- In person
- Last 6 months, in US, LOTS of emails, Skype



Two key items we learned from our partnership:

(1) Reach out to each other

...not just about your overlapping science – but the “Big Picture” of science in one another’s countries

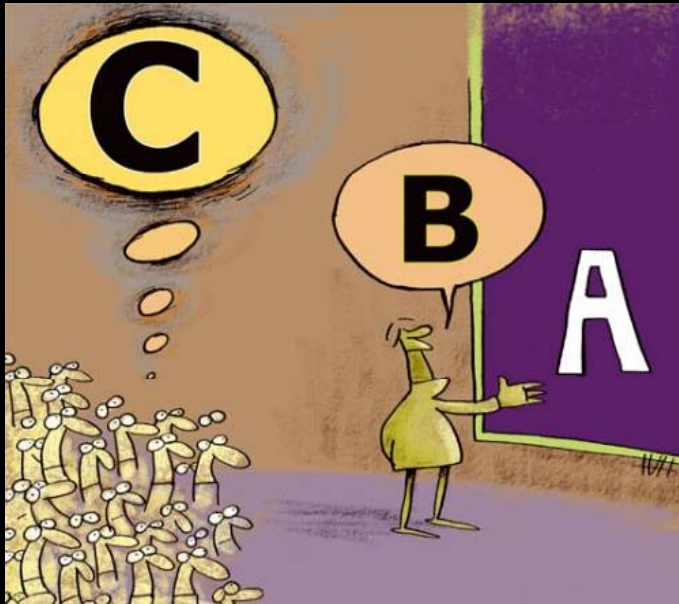


Reach Out To Each Other

Big Picture Questions:

- **Funding?** Typical funding sources? How much? How variable is funding year-to-year? What are “hot” science topics? Historical context?
- **In Practice?** How is science done? What are the norms? At the University? At research institutions? At ministries? Publishing? Data sharing expectations?
- **Education?** How does the university system work? What are typical expectations for a graduate student to obtain a PhD? What do people do/where do they go upon obtaining their degree?

Why understanding the “Big Picture” matters:



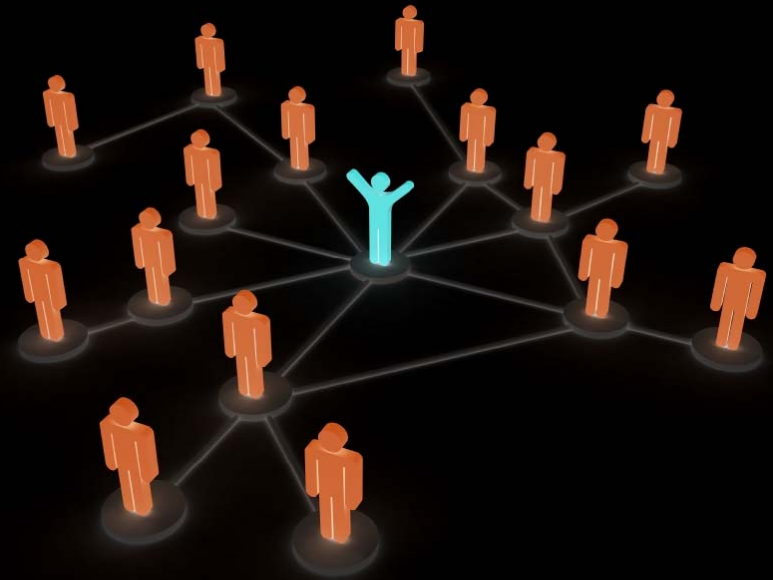
Source: thegoodnessgrows.com/

Gives contexts to your interactions with each other.

Prevents misunderstandings (and makes them easier to handle when they do)

Subsequent knowledge transfer outside of your partnership

Ex: Students increase their understanding of how science works in another country → More likely to go to that country do research.



How to have “Big Picture” conversations:

- **Initiate these discussions during part of an existing conversation (email, Skype, during visits, etc.)**
- **Initiate them as a separate, scheduled conversations.**
- **Get your research group involved.**
Ex: One-on-one Student “Skype” exchanges

Two key items we learned from our partnership:

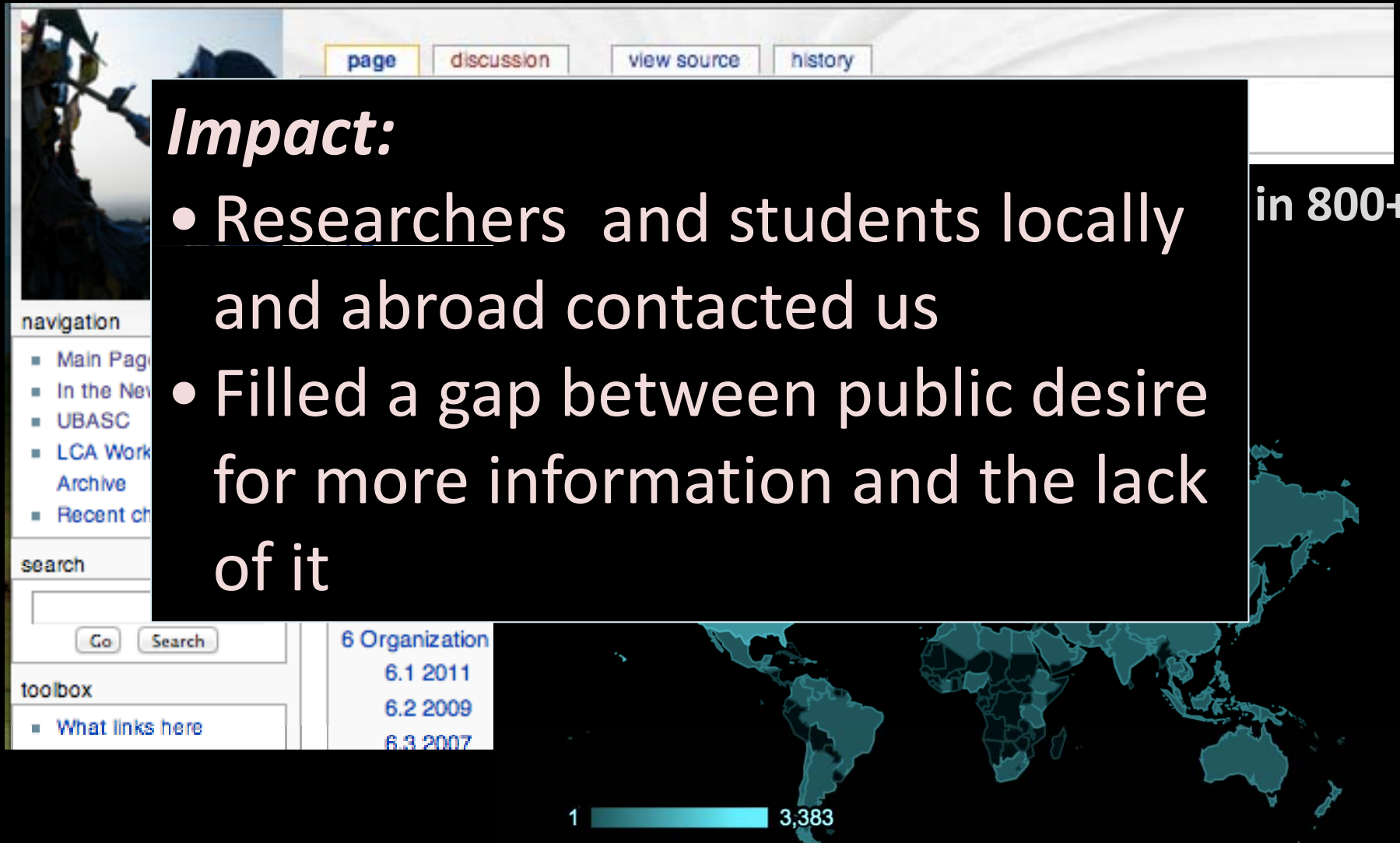
(1) Reach out to each other

(2) Reach out together

....as PEER PIs + Partners, we are generating scientific data on development issues that give us a unique voice within our communities. Our voices are stronger together.

Reach Out Together

UBAirPollution.org



The image shows a screenshot of the UBAirPollution.org website. At the top, there are navigation buttons for 'page', 'discussion', 'view source', and 'history'. Below these, a central text box contains the following information:

Impact:

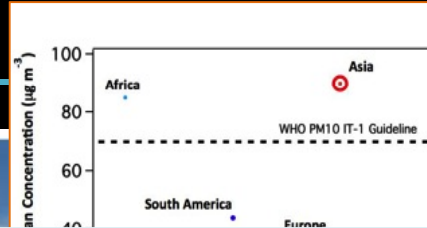
- Researchers and students locally and abroad contacted us
- Filled a gap between public desire for more information and the lack of it

To the right of the text box, it says 'in 800+'. Below the text box, there is a world map with a color scale from 1 to 3,383. The website interface also includes a 'navigation' menu with links to 'Main Page', 'In the News', 'UBASC', 'LCA Work', 'Archive', and 'Recent changes'. There is also a 'search' box with 'Go' and 'Search' buttons, and a 'toolbox' section with a link to 'What links here'. A sidebar on the right shows '6 Organization' with dates: '6.1 2011', '6.2 2009', and '6.3 2007'.

Reach Out Together

Impact:

- Local and international media attention (UB Post, Huffington Post, TEDxUB blog)
- Contacted by embassies, Mongolian government officials
- Offers to fund us from local companies (~60,000 USD)



10-25%

Хүний эрүүл мэндэд нөлөөлөх нөлөөллийг тоогоор харуулвал

650 тэрбум

PM-ийн улмаас үүдэлтэй нас баралтын түвшин жилд (Allen et al., 2011)

PM-ийн улмаас УБ хотын эдийн засагт гарах алдагдал – УБ хотын ДНБ-ийн 20% (Дэлхийн Банк 2011).

Quality AirQuality

PM (PM) гэж юу вэ?

Зөвхөн хүний үс (PM10) (Диаметр < 10µm)

PM2.5 (Диаметр < 2.5µm)

210 people saw this post

Boost Post

Two key items we learned from our partnership:

(1) Reach out to each other

(2) Reach out together

PEER UB Air Pollution Team:



Ms. Gerelmaa Gunchin



Ms. Delgerzul Lodoisamba

Thank-you!

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This presentation is available at:

UBairpollution.org/Presentations/PEERP_arterships.ppt

