Women Entrepreneurs Grow Global





















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wegginar

Small Startup, Big Global Impact

Katie Kollhoff, CEO, NUMiX



Northwestern ENGINEERING
Master of Engineering Management



Moderator: Mark Werwath, PhD, PMP

Our Journey Together Today

Origin story of a women-led hard science company

Worldwide water as a market

Q&A with
Professor Mark
Werwath







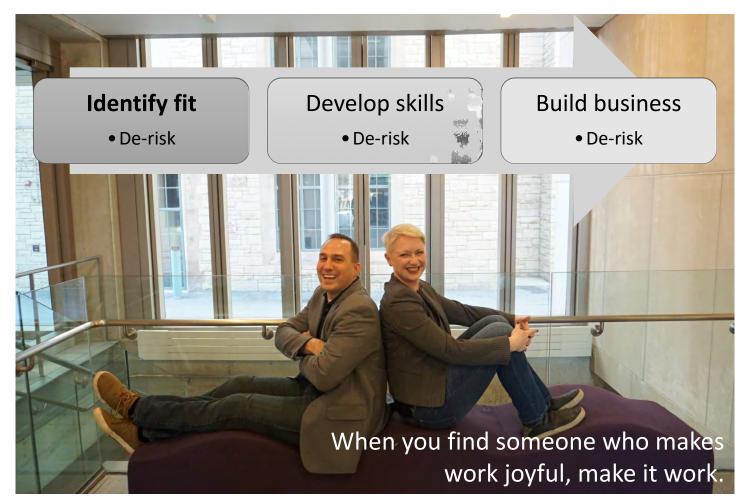




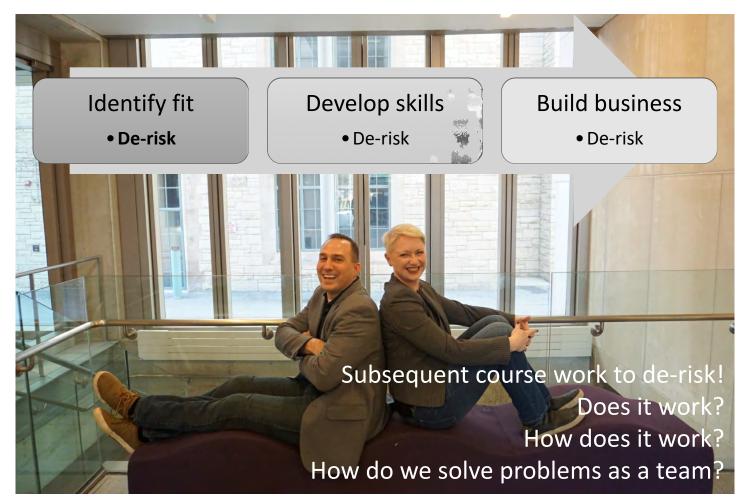
Technological developments & impact on water risk

Considerations
of a small
company
reaching across
the globe











Identify fit

De-risk

Develop skills

De-risk



Build business

De-risk

10 week course: build team, skills and idea



Farley Center for Entrepreneurship+Innovation





(Chemical)

We **fit** together at the intersection: Water & hazardous metal waste

MS Law (IP) & **Mechanical Engineer**

Ian Weise

Katie Kollhoff

Matt Heise

Laurelle Banta



Olivia Lugar

& business Solid waste runs in

Management & energy processes

NUMIX

MATERIALS

Foundry Operations

Project teammates self-selected!

We sought, analyzed, and integrated coaching and feedback.





Clean Energy Trust



Rice Business Plan Competition





VENTURECAT

Identify fit

• De-risk

Develop skills

De-risk

Build business

De-risk

Northwestern University's VentureCat

US DO

Rice Business Plan Competition

We still do.

Clean Energy Trust



Complementary interests, skills & growth mindset are key to building.

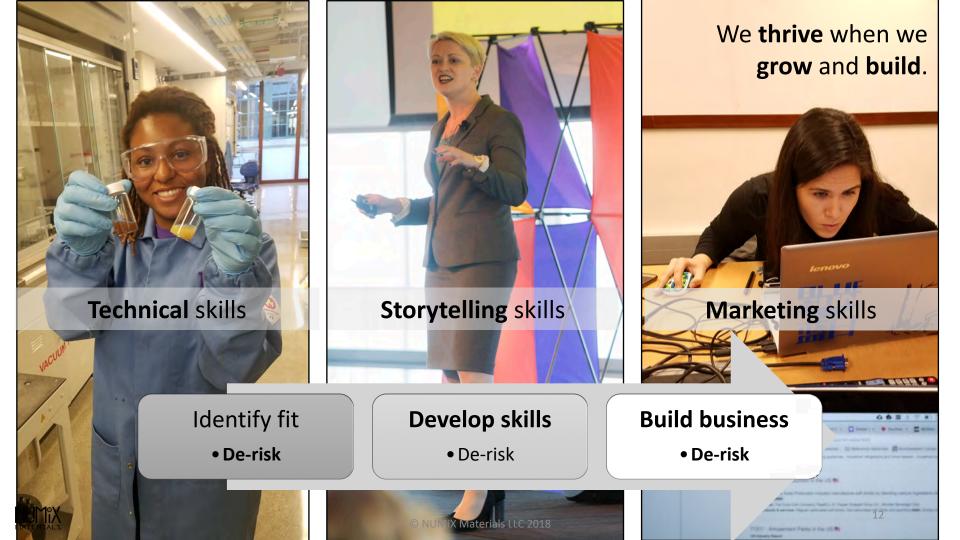
In our **culture**, we **ask** why, we **examine** horizons, and we **grow** from every lesson.

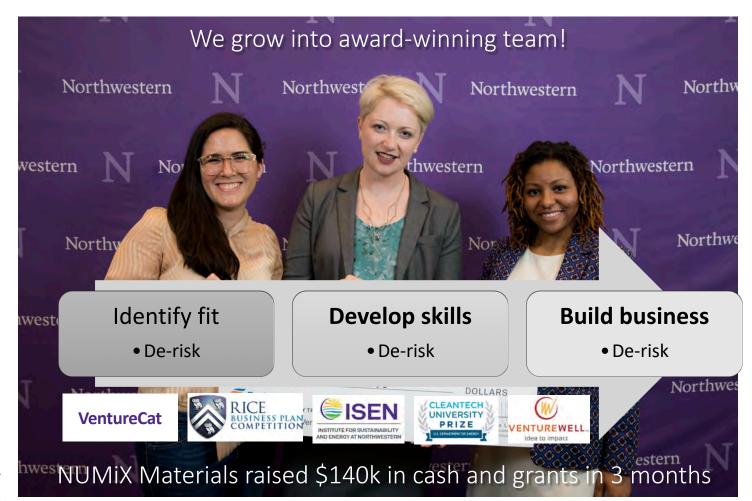
Culture is worth talking about, early and often.

What you want to see is what you should be.

Difficult conversations liberate when done early and well.



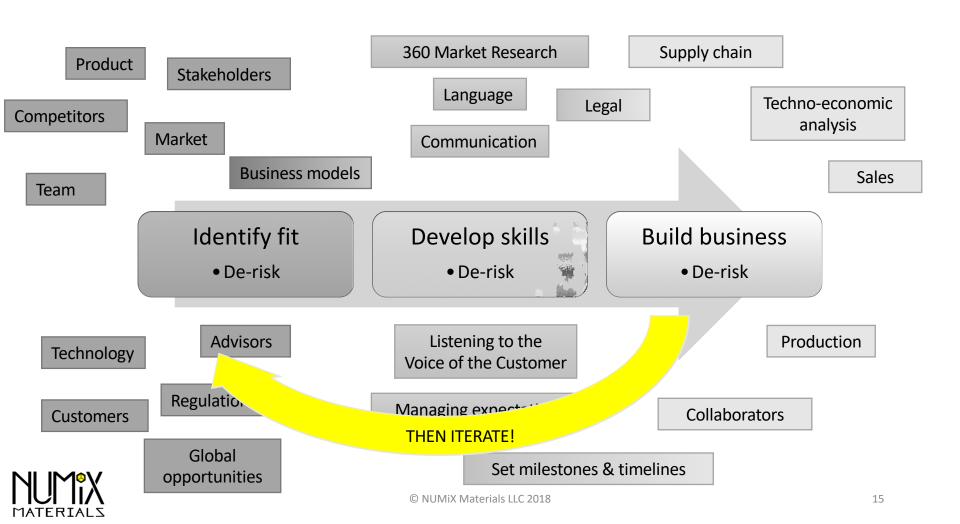








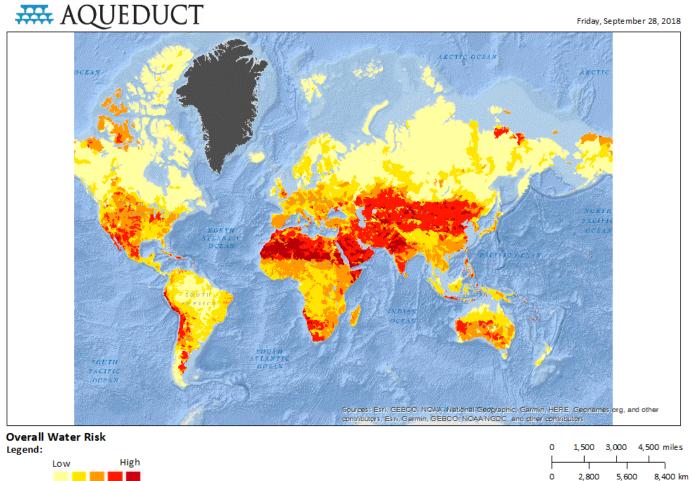




WHAT DRIVES US **Tech** developments & growing water risk

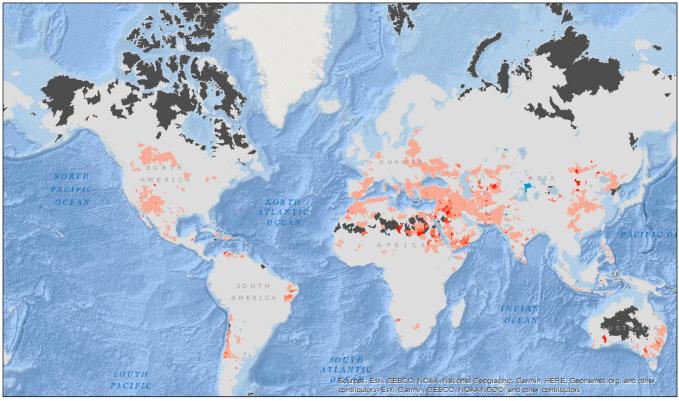
- Globally, mining, processing, finishing, using, and disposing of metals results in metal-laden water, poisoning the well in a time of growing water crisis.
- Just the one microchip plant in Burlington, Vermont, makes 2 million gallons of ultrapure water a day for use in manufacturing semiconductors. and there are dozens of chip plants around the world. This ultrapure water immediately dissolves out metal particles.
- Making LCDs requires heavy metals such as mercury, cadmium, chromium, zinc and copper. Foxconn is building a plant in Wisconsin that will draw 7 million gallons of water a day from Lake Michigan.

Global Water Risk Today



*** AQUEDUCT

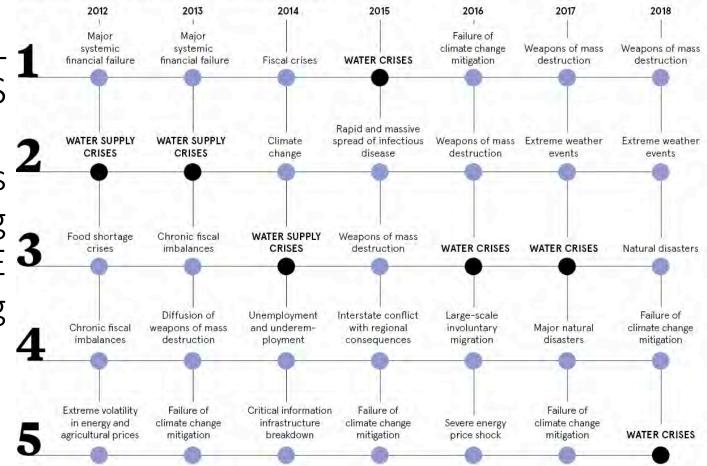
Global Water Risk Tomorrow





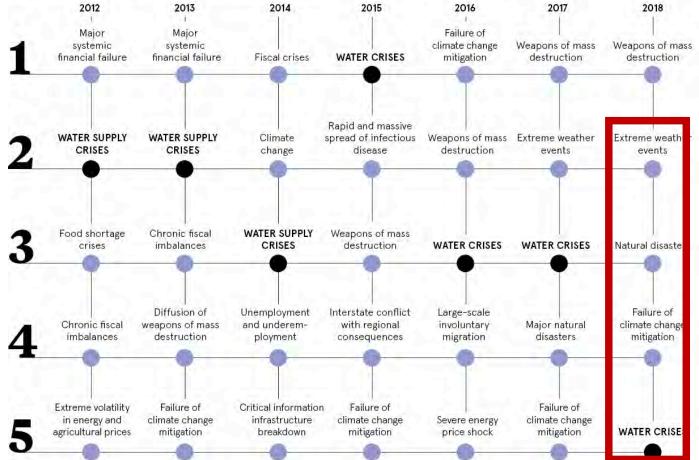
TOP GLOBAL 1

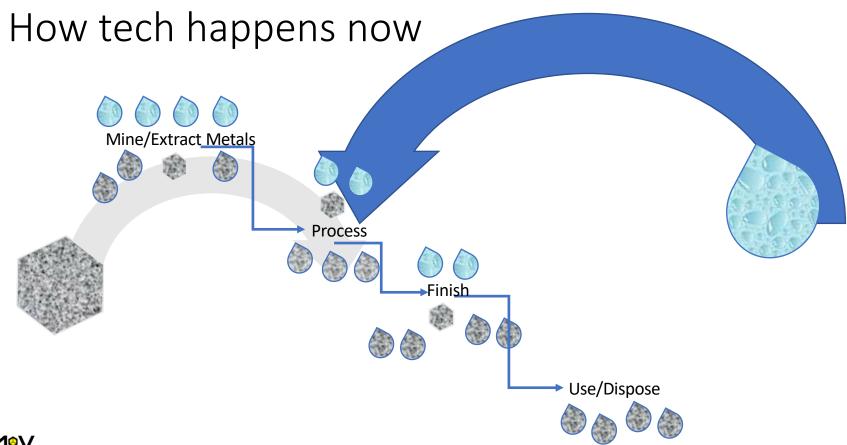
Water is among among TOP FIVE 3
7 years running



TOP GLOBAL 1 IMPACTS

And is implicated in others!

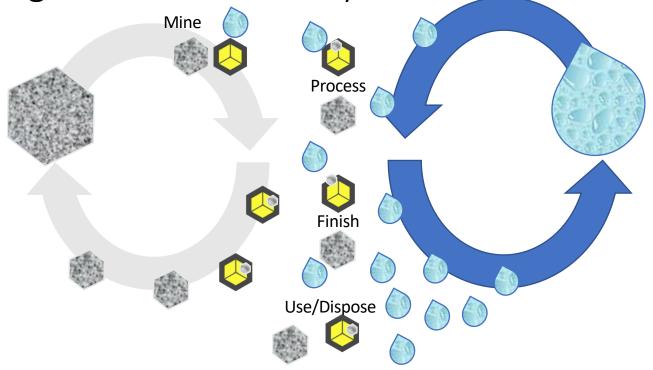




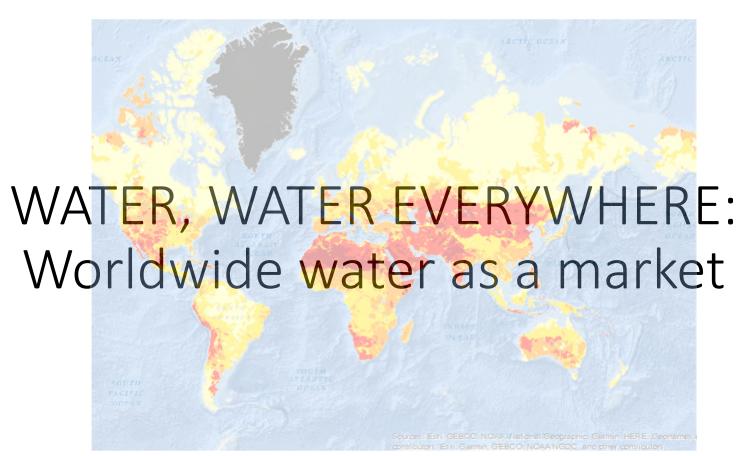


THE NUMIX VISION:

Enabling a circular economy for metal & water

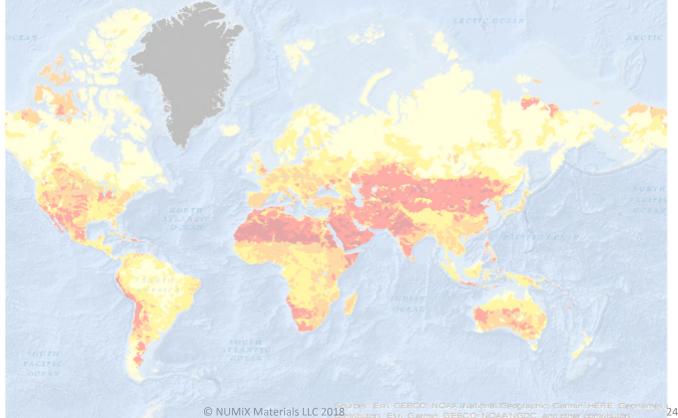








Water crises exist or arise across the globe.





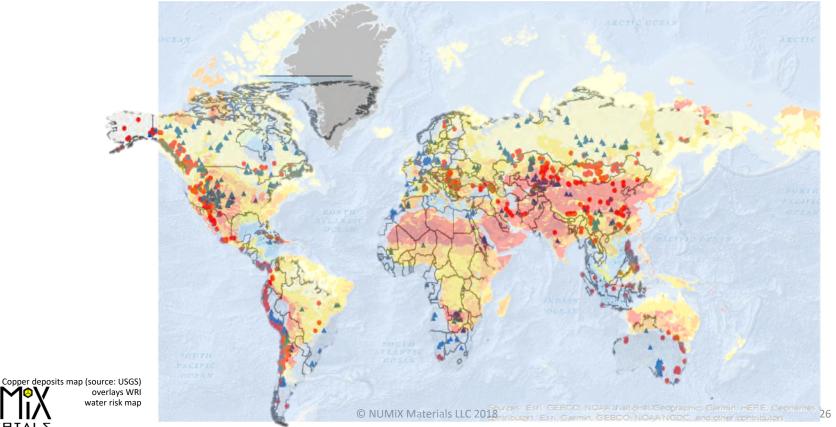
United Nations: "Water is critical for sustainable development & eradication of hunger & poverty."







Copper deposits alone point to future stress.



Many enterprises are developing solutions.



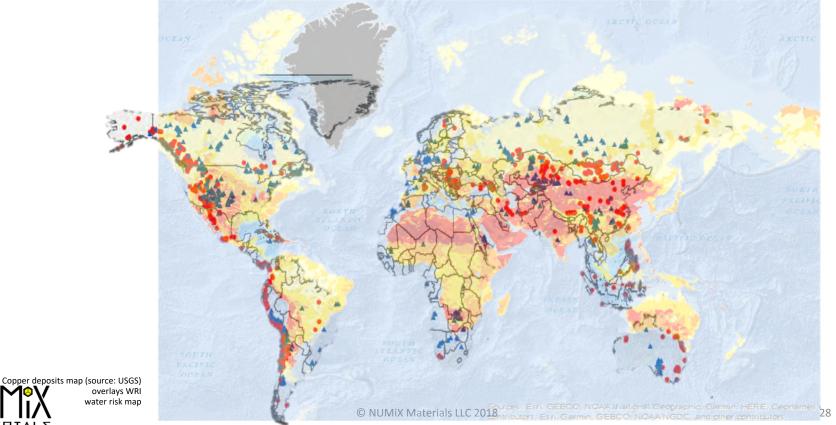
From cloud fishing/fog harvesting...



...to drinkable books.



We provide a small piece of the global puzzle.



Considerations of a Small Company Reaching Across the Globe

We are constantly thinking about:

- Point of Entry
- Point of Need
- Strategy to Going Global
- Drivers of adoption of water technology
- International stakeholders & adjusting to time zones!
- Production, shipping, monitoring
- Legal & regulatory differences
- Cultural and customary differences



Time for your questions!

Moderator: Prof. Mark Werwath

Northwestern University's Master of Engineering Management & Farley Center for Entrepreneurship and Innovation



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How to Make Your Global Online Shoppers Feel at Home Wherever They Are



Cristina Bandal, Industry Segment Manager: Retail and Consumer Goods, UPS