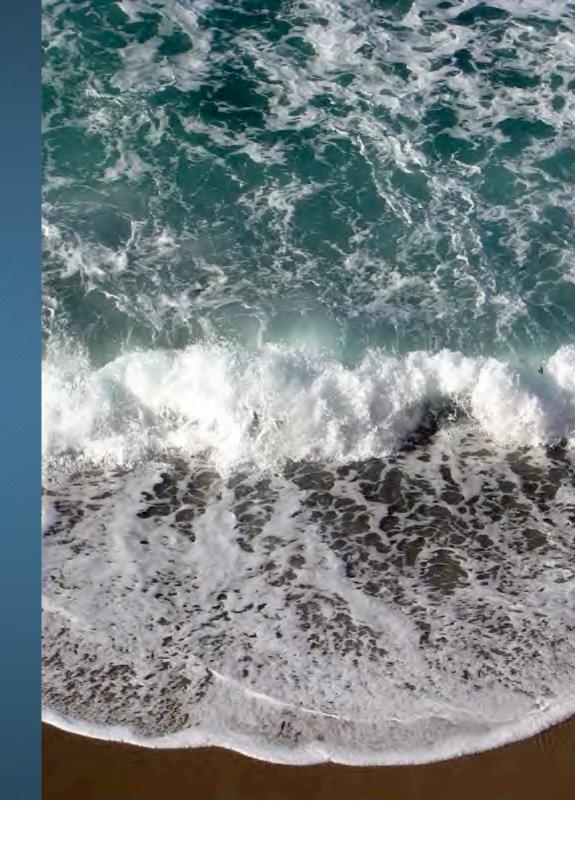
making waves

changemaking in the classroom

drew m. talley, marine science & environmental studies

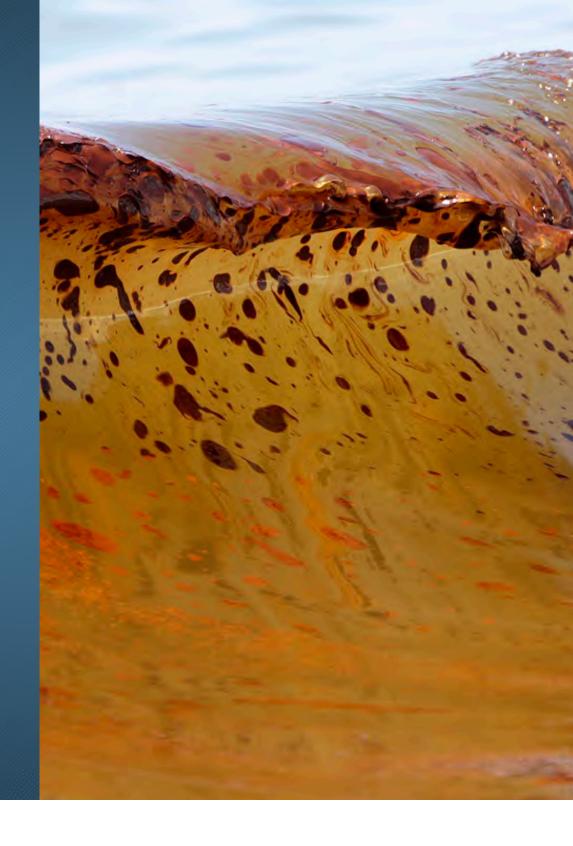


- understanding complexity (and connectivity)
- promoting action
- why Ashoka matters



At first I felt as though I have an unfair advantage when it comes to changemaking, due to my field (marine biology), and how, especially here in san diego, our lives are so intertwined with the ocean. Then I realized I was being narrow minded (or maybe just arrogant?), and that ALL of the tools I use to try and effect change in the classroom are tools that could serve in any course.

- understanding complexity (and connectivity)
 - authentic examples



understanding complexity





oil spill in gulf

demand for oil

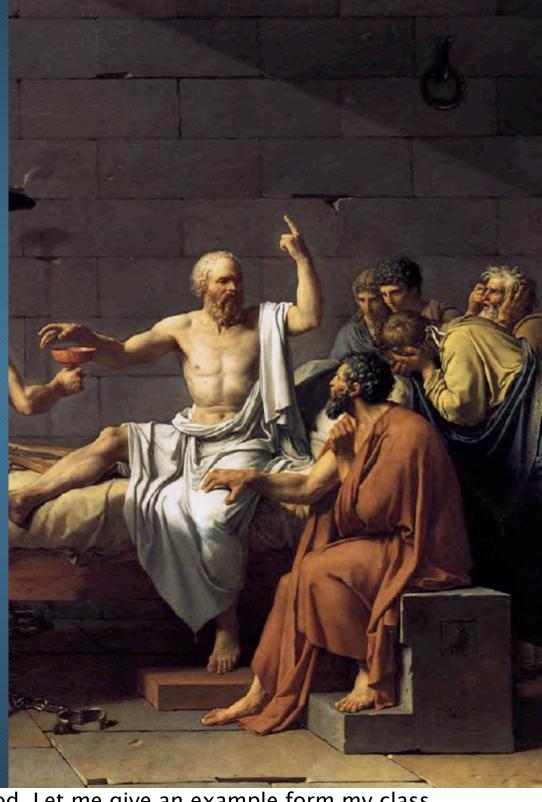
talk about iconic images, enviro issues with oil spill, but also personal actions that create the demand

- understanding complexity (and connectivity)
 - authentic examples
 - help them make connections



so how do we help them make connections? I can tell you how we DONT do it - DONT spoon-feed the students, because they need to discover on their own.

- understanding complexity (and connectivity)
 - authentic examples
 - help them make connections



rely on the classic (but underused) socratic method. Let me give an example form my class...

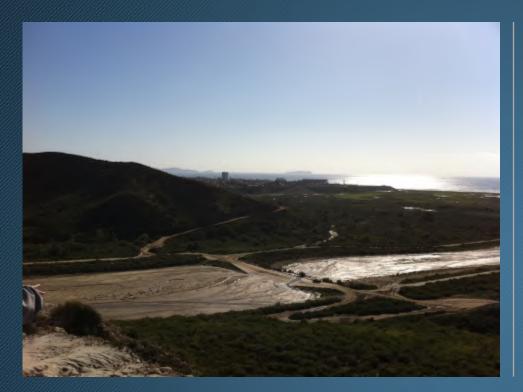


habitats

endangered species

tijuana river national estuarine research reserve

to teach students about marine ecology, one great local asset is TR NERR. learn about habitats, es, ecology, management





impacts

on both sides

tijuana river national estuarine research reserve

but we also look to the south, and the students themselves will slowly engage and actually run through a string of emotions – irritation that "Mexico is ruining our marshes with sediment and trash", but then also an appreciation for the level of poverty and human aspects across the border



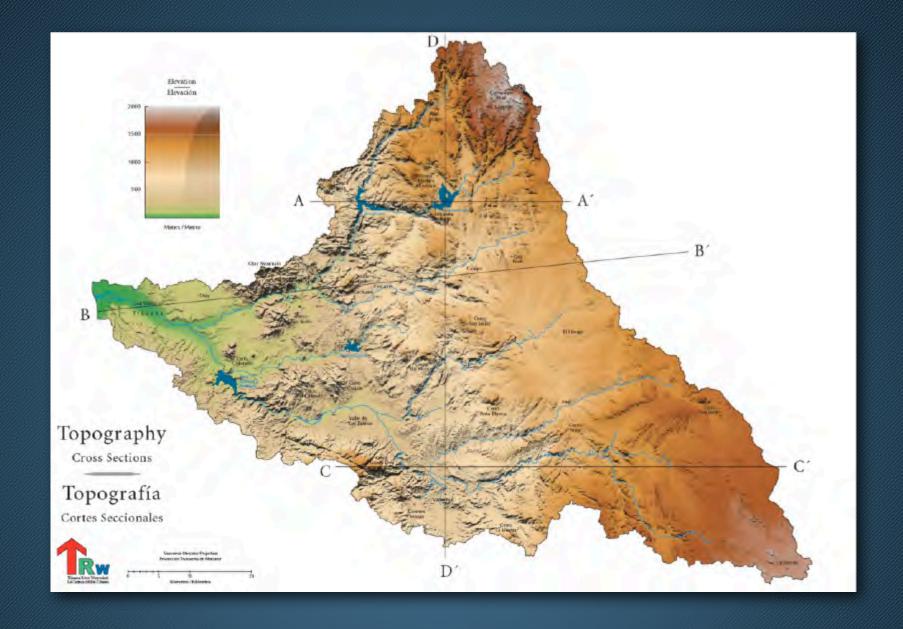


cultural resources

human resources

tijuana river national estuarine research reserve

we also bring the conversation to the benefits we receive from Mexico - the cultural resources (food always hits home with people), and the human resources



tijuana river watershed

binational inputs

And we step back and look at this in a broader geographic context - we can see that fully 3/4 of the tijuana river watershed is in mexico, so we simply cannot address these issues without international cooperation.

- understanding complexity (and connectivity)
- promoting action



this is what changemaking is all about, right? actually doing something. So how do we promote action?









knowledge (content)





knowledge (content)

attention

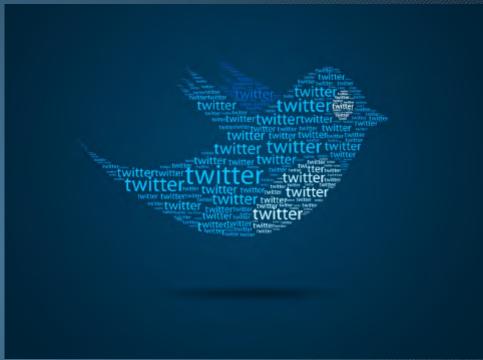




knowledge (content)

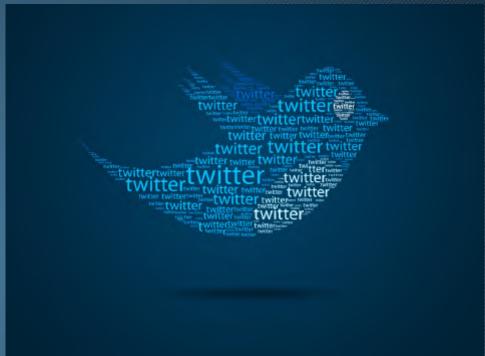
inspiration





two of the many ways I rtry to encourage that attention....

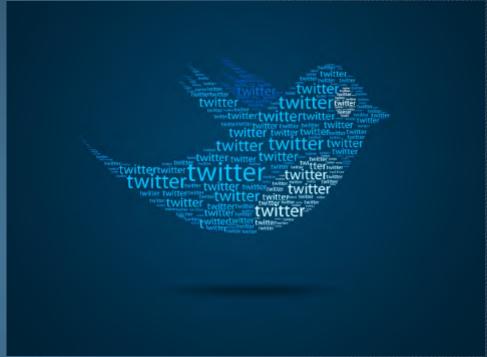




fora/blogs/writing assignments

two of the many ways I rtry to encourage that attention....





fora/blogs/writing assignments

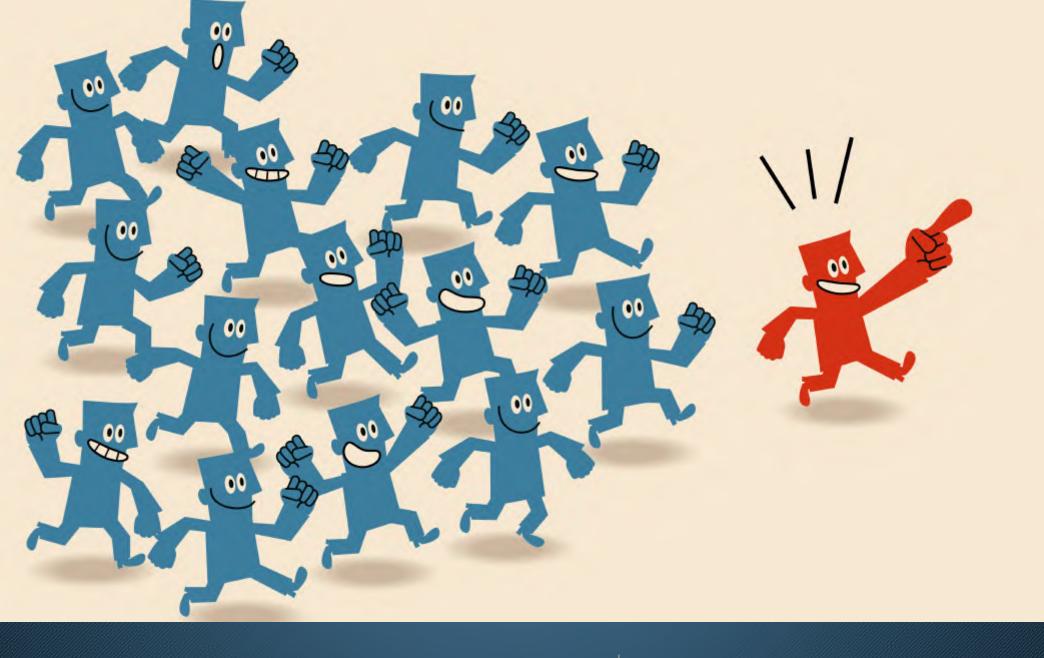
twitter

two of the many ways I rtry to encourage that attention....

- understanding complexity (and connectivity)
- promoting action
- why Ashoka matters

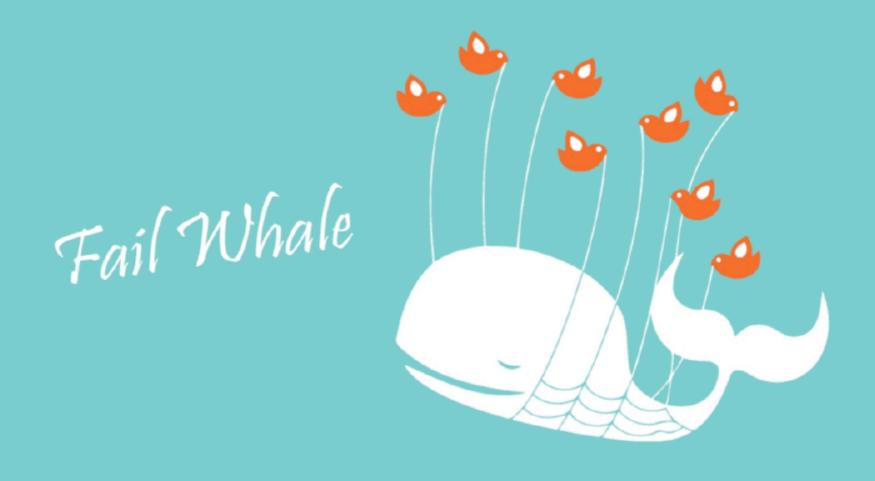


So, finally, why Ashoka? SO many of us do these things anyway, how will a label end up helping?



explicit shared goal, respected and promoted at all levels

Because it is all about the power of a unified goal. Here, we have an explicit, shared goal, that is both respected and promoted at all levels in the university.



fail at more interesting things

of course, these efforts are not always successful – some things are almost impossible to grade, for example. Some students (like some faculty) dislike social media, so efforts to integrate Twitter have been hit-and-miss. There are time trade-offs involved – it takes longer to develop ideas like this in a class than it would to simply keep on lecturing and running through more material. And, for