

#### And we care because?

- We live and work in a global economy
- Geography is all about us, in our cars, our phones, even our farm implements!
- Google has made geography ubiquitous, yet, most people are spatially "illiterate".
- People have to understand the concept of "Where"
- Just understanding geography through the context of history is insufficient.
- If we are going to do business with someone, we had better know, literally, "where they are coming from".
- GIS professionals should understand this better than anyone else.

## Our Spatial Education problem

- Only 37% of young Americans can find Iraq on a map—though U.S. troops have been there since 2003.
- 6 in 10 young Americans do not speak a foreign language fluently.
- 20% of young Americans think Sudan is in Asia. (It's the largest country in Africa.)
- 48% of young Americans believe the majority population in India is Muslim. (It's Hindu—by a landslide.)
- Half of young Americans cannot find New York on a map.

Findings of the 2006 National Geographic study.

From "How Can Geography Literacy Be So Bad in the Age of Google Earth?" by Anne-Laure Freant in Directions Magazine

## How I got Involved

- Received an email forwarded by a fellow GISP.
- He had received it because of a recommendation by his exwife to someone on the State Board of Education.
- Based on his relationship with his ex, he left the email unanswered until after he had finished an off shore contract and moved out of Tennessee.
- He "thought" I might be interested

#### And So

- Turns out, the state was developing the curriculum for a high school level GIS course
- This was after they had removed Geography as a required course for graduation
- I managed to contact the person that had been seeking comment on the curriculum standard. There was still time to review and make comment, but not much.

# The GIS Community Responds

- I offered, as a representative of Cumberland URISA, to seek additional reviewers.
- An appeal was sent out to members of Cumberland URISA as well as GISP's in the state of Tennessee
- In short order, we had eight GIS peers reviewing the curriculum
- Knowledge and experience ranged from a middle school teacher to GIS Managers to one PhD.

#### We Weren't the First

- State BOE had already sought the input from university and community college professors
- While their insight was valuable, there needed to be input from a broader spectrum of experience.
- Everyone who volunteered completed their reviews and comments on time.

#### Results?

- Not really sure
- The standard was adopted by the State BOE
- No feedback was provided as to whether any of the comments were used to revise or justify the standard
- We can at least say it has been vetted by a cross section of the profession.

### My Concerns

- I am not convinced a single course in high school is the best way get a young person interested in GIS
- One course will not provide sufficient knowledge to make that individual employable in the field
- I would prefer that GIS be used as a tool of instruction and that GIS specific instruction be at the technical school or college level.
- Without a solid foundational knowledge of geography, how would someone be any good at GIS?

#### On the Plus Side

- At least some geography is being taught
- It will broaden the number of people that have a familiarity with GIS
- Perhaps it will provide the means to show that more geography instruction is needed, not less.

#### What Now?

- Cumberland URISA should establish a dynamic relationship with both Kentucky and Tennessee state Boards of Education as well as their state Geographic Alliances.
- Make it clear that we want to be part of the solution!
- Emphasize the need for all GIS instruction to be based on the DOL Geospatial Technology Competency Model
- The ideal will be that an individual will receive a progressive education in GIS so that our states will be viewed as "tops" in GIS education.