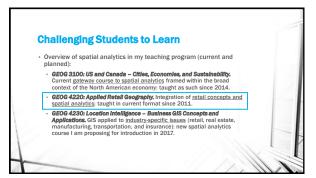




Challenging Students to Learn I am mid-stream in the development of a modest suite of courses providing a broad and cumulative background in spatial analytics and geographic reasoning Goak challenge my students to link spatial analytics concepts and methodologies with real-world challenges faced by practitioners Defining feature: theory grounded by application



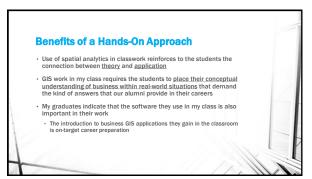
Challenging Students to Learn Applied Retail Geography course: spatial analytics applications are important, but not the sole focus The majority of time in this course explores a set of ideas that develop a foundational understanding of the retail environment: Site selection Market analysis Retail growth strategies The interface between retail business activity and cities at multiple geographic scales (from local to national)

Challenging Students to Learn To balance our conceptually-oriented classroom discussions, I introduce GIS-based applied exercises midway through the semester Alm: have the students gain experience with putting retail concepts into practice with field observations and analytics I also ask my students to use their emerging GIS skills in their group-based semester research project, due at the end of the course

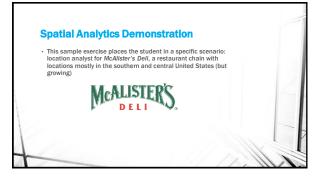
How I Bring Analytics Into the Classroom My aim with the use of analytics is to draw a close connection between the conceptual component of my business location teaching and GIS skills Building this link emphasizes that the ideas taught in my classroom are directly relevant to business careers (not just 'good things to know') In my instructional context, to do this well it is important to use software that is capable but not overly complex Some students with previous GIS coursework, others with none (difficult balance to teach to) I currently use Esri's Business Analyst Online (BAO) cloud software

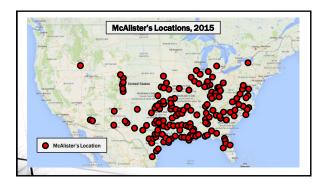
How I Bring Analytics Into the Classroom I use BAO for my retail class because it is 1. Accessible (not difficult to learn), which is important since my class has a broad mix of student backgrounds 2. Elexible (because it is cloud-based), enabling students to use it in our classroom analysis sessions but also outside of our class time More time on the software - More learning 3. Bundled with rich datasets, covering general, census-based demographics but also more specialized data offerings including Business locations Purchase behaviors Street traffic volume data

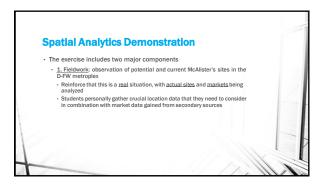
How I Bring Analytics Into the Classroom Other GIS/analytics packages support hands-on learning in different ways and are worthy of consideration Any of the following might be a good fit for you, depending on your course objectives, student needs, and available resources 1. Est Business Analyst Desktop 2. Alteryx 3. MapInfo 4. Caliper's Maptitude and TransCad 5. GQIS (Open Source) 6. Trade Area Systems TAS Online, TAS Analyst, and TAS Mobile 7. Forum Analytics SIMMS Online

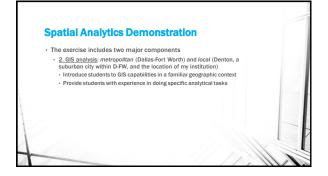


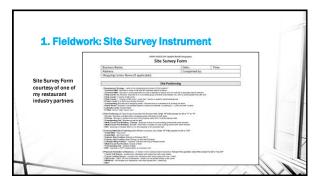


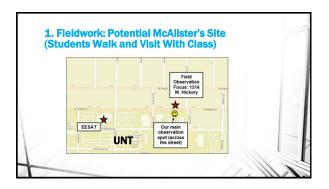












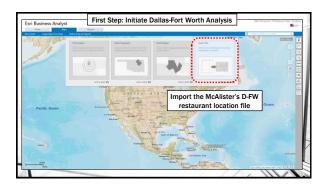




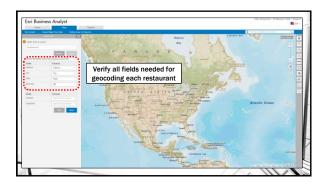






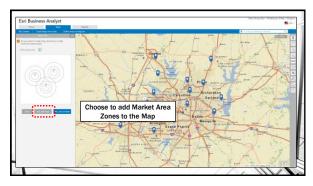








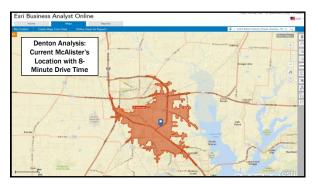


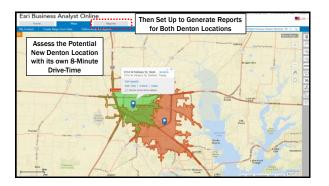




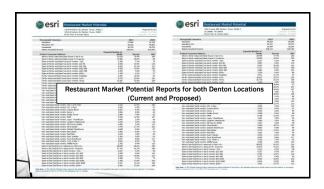


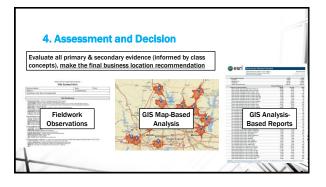












Summary I follow a cumulative approach to teaching spatial analytics 1. Establish motivation and interest in an analytical approach (broad scenario, problem, and issue-based discussion) 2. Conceptual development (specific business & geography ideas, perspectives, and ways of thinking/observing the world) 3. Emphasis on GIS/apatial analytics (but tied directly to application) This general approach holds for my individual course plans and the overall sequence of courses I am building Within all of this, I recommend hands-on project work with a wide range of real-world data and relevant software

