

## Introduction

Welcome by **Dr. Denis Dean** (Dean of the School of Economic, Political and Policy Sciences)

### Workshop Participants and Organizers

- Broad spectrum of enrollees:

	Faculty	Master's	Ph.D.	UG
Erik Jonsson School of Engineering and Computer Science	0	2	0	
Naveen Jindal School of Management	0	37	0	1
School of Economic, Political and Policy Sciences	2	8	8	1

Note, UG's should not be intimidated: no prior knowledge is required.

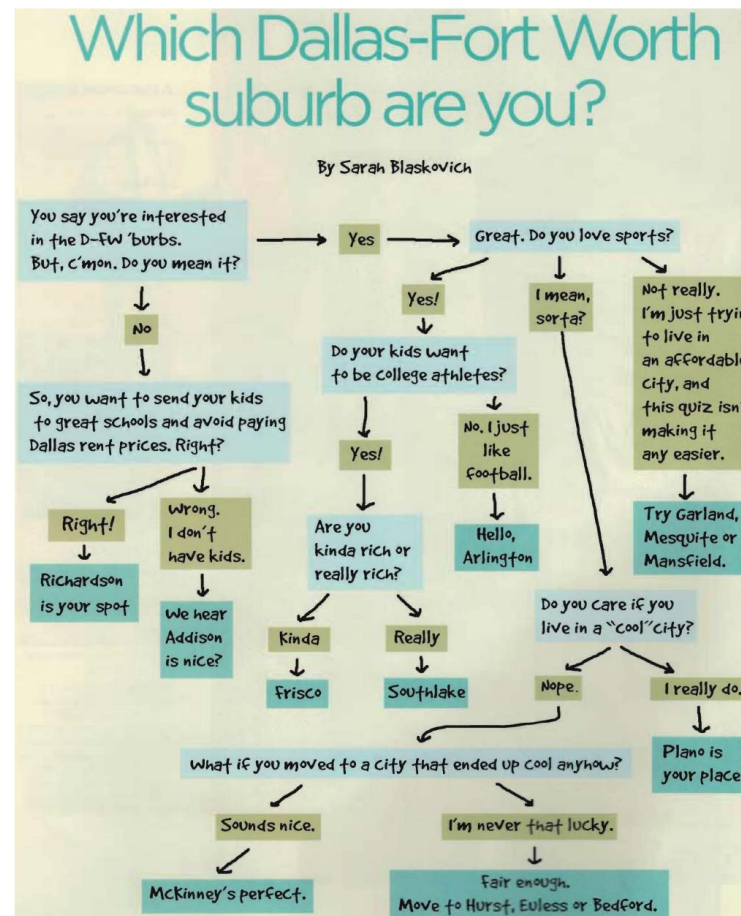
- Team members (see [credits](#) on workshop's webpage).

### Motivation for Holding the Workshop

- Caliper Inc. has made Maptitude available to EPPS. We want to introduce the UTD community to the academic and professional potential of using spatial information in order to support decision-making processes.
- Non-GIS participants should obtain an introduction to Geo-Spatial Information Systems (GIS).  
My claim: doing basic GIS is not more complicated than using your favorite word-processor
- For GIS students we would like to introduce them to another GIS software

## Workshop Objectives

- Allow participants to perform basic GIS tasks with Maptitude, like retrieving census data, mapping their own data and perform basic spatial analyses.
- Give participants an idea what GIS can do for their specific academic and professional fields.
- ***Learn something about the places we are living in or potentially will move to!***



## Maptitude within the Environments of GISystems

- Upon application an academic one-year licenses of Maptitude 2018 is available at <https://www.caliper.com/maptpric.htm>
- Maptitude key property:
  - relative ***ease of learning*** GIS with Maptitude,
  - good subset of key ***spatial analysis*** and ***spatial data handling*** routines,
  - comprehensive set of ***available data*** for several countries,
  - reasonable ***costs*** of ownership
  - good ***integration*** with other software systems,
  - ***efficient*** use of computer and network resource,
  - possibility of ***extending*** its capabilities and ***modifying*** the interface.

Note: Maptitude is not a raster software to process remotely sensed data.

- Other mapping and spatial analysis software systems:
  - Rudimentary mapping capabilities: SAS, [Tableau](#), [Google maps](#) and [Google Earth](#) etc.
  - Open source GIS programs: [QGIS](#), [GRASS](#), [R](#) and [OpenStreetMap](#) etc.
  - Midlevel: [MapInfo](#) and [Maptitude](#) with US country package including [census](#) data and [HERE](#) street network (formerly Navteq and Nokia, now consortium of German car manufactures)
  - High-end: [ESRI](#)'s ArcGIS suit etc. (THE 500 pounds gorilla)
  - Specialized: [TransCAD](#) by Caliper etc.


## Workshop Schedule

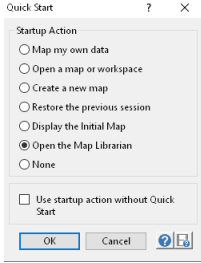
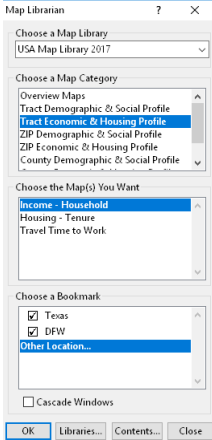
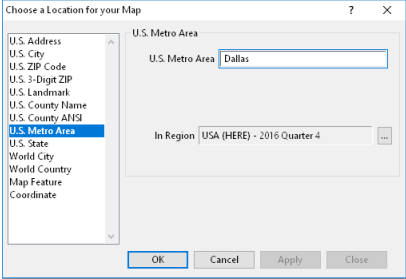
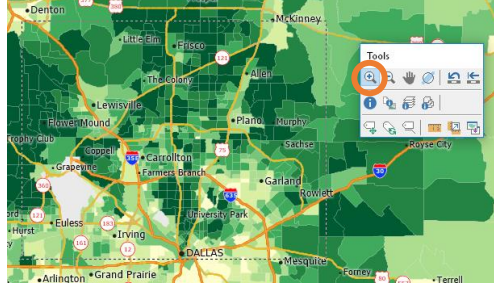
- Outline of activities during the workshop see the website's [schedule](#) page.
- What is ***not*** covered?

## Post-Workshop Tasks

- Information on how to obtain a participation certificate
- Workshop evaluation

## First Maptitude Encounter

- Before we will cover some theory, concepts and terminology in the next lecture, *let's do some exploring*.
- Open Maptitude by selecting the **blue map-head desktop icon**  and wait for the **Quick Start** menu to pop-up. To show a map of the income distribution in the Metroplex proceed with:

<p>[1] Select the <b>Open the Map Librarian</b> and click <b>OK</b>.</p>	<p>[2] Select <b>Income</b> from the <b>Tract Economic &amp; Housing Profile</b> and click <b>OK</b>.</p>	<p>[3] Select <b>Dallas</b> from the <b>U.S. Metro Area</b> and click <b>OK</b>.</p>	<p>[4] Interactively zoom into North-Central Dallas</p>
			

- To explore other themes goto **Map ► Demographic Map Librarian**. You can scroll through your open windows in the **Windows** menu.