1. **Taking stock of the room – skills, experience, and goal(s) in:**
   a. Introductions
   b. Web Mapping?
   c. GIS?

2. **Quick Overview of State GIS Data: The “Federated” Model**
   a. Multiple steward groups (e.g. ANR, VTrans, Health, e911, etc.), all coordinating to some degree via **Enterprise GIS Consortium (EGC)**, which VCGI organizes
   c. Nature of GIS Information:
      i. “Datasets”
      ii. “Services” – like Netflix, but for map info
      iii. “Applications” – e.g. ANR Atlas, VT Interactive Map Viewer, e911 Viewer, etc.
         1. Apps are our Focus Today, which draw on underlying federated data
      iv. Documentation – Metadata, reports, standards/guidelines, etc.

3. **A Sample of Web Applications**
   a. Agency-Focused
      i. [ANR Atlas](https) / ANR Atlas-Lite
      ii. [ACCD Planning Atlas](https)
      iii. [E911 Viewer](https)
   b. General
      i. [Vermont Interactive Map Viewer](https)
   c. Task/Program/Policy-Specific
      i. [BioFinder 2016](https) (ANR)
      ii. [Flood Ready Atlas](https) (ANR)
      iii. [Vermont Parcel Viewer / Status](https) (VCGI)
      iv. [Vermont Orthoimagery Finder / Status](https) (VCGI)
      v. [Vermont Lidar Finder / Status](https) (VCGI)
      vi. [Tick Tracker](https) (VDH)
      vii. [More Complete List](https)

4. **Using Map Applications in Quasi-GIS Web Apps (Geocortex Apps)**
   a. Platforms: ArcGIS Online - AGO, GeoCortex, Others (e.g. Google, Mapbox, etc.)
   b. The GeoCortex Platform: these are not desktop GIS replacements, but you can do a lot with them
   c. Using with vs. without an ArcGIS Public Account
      i. **Account Registration** (ArcGIS Public / Free Acct) ([Documentation](https))
         1. Limits on public acct’s: no publishing feature services, no layers greater than 1000 feature, storage cap 2GB, etc.
      ii. Saving / Loading Work

5. **Demo**
   a. Overview of Controls & Toolbar – WSYIWYG, mostly
      i. Scale Dependencies of Some Layers – be sure to zoom in / out
   b. Navigating an App
      i. The Navigation Tab
      ii. The Sidebar
      iii. The Right-Click Pop Up
      iv. The Attribute Table
   c. Finding Data
i. Pre-loaded
   ii. Not pre-loaded: Layer Catalog, Geodata Portal

d. Loading Data
   i. Existing Layer List
   ii. Layer Themes
      1. Tasks / Programs Related with Themes
         a. ANR Themes
         b. E911 Themes
   iii. Layer Catalog

   e. Selecting Data

f. Customizing a Map
   i. Layer Re-ordering
   ii. Layer Re-styling
      1. Transparency
      2. Symbology
   iii. Layer Labelling
   iv. Drawing Geometry
      1. Service Area Example

   g. Understanding Data
   i. Coordinates
   ii. Addresses
   iii. Querying
   iv. Snapping
   v. Scales

h. Sharing a Map
   i. Email link to current view

i. Saving a Map
j. Loading a Saved Map
k. Printing a Map
   i. The Print Function Pane

6. Some Limits – (Time for Desktop GIS...)
   a. No Easy Layer List Manipulation
   b. No Custom Symbology past 12 fields
   c. No Clipping Extents / native map graphic processing
   d. No Geoprocessing, spatial analysis, etc.
   e. No publishing of services, handling of large datasets, etc.

7. More Resources
   a. ANR Atlas Orientation Videos
   b. VCGI GIS Videos (Youtube)
   c. Links to GIS Resources

8. Contacts
   a. VCGI: vcgi.vermont.gov (see footer for contact info)
   b. VT Open Geodata Portal: geodata.vermont.gov (clearinghouse for GIS data)