Technologietrends und Impressionen
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- ArcGIS Plattform als Ganzes, WebGIS
- ArcGIS Pro
  - Inkl. SDK
- Vector Tiles
- Apps
ArcGIS

GeoInformation Model now also Integrates Maps & Scenes, Layers and Analytics

Maps & Scenes, Layers, Analytics

GIS Maps & Data

Imagery

Enterprise Data

Real-Time (IoT)
Organizations are Fully Leveraging Their Information Assets
Mapping

Smart Mapping

Vector Tiles

Data Visualization
Why Vector Tiles?
Raster tiles for high dpi devices

Example from Google Maps
Why vector tiles?

- GPUs have changed the landscape
  - On your devices (OpenGL)
  - In your browser (WebGL)
  - On your desktop (DirectX, OpenGL)
  - Even in virtualized systems (vGPU)

- Vector data can remain vector

- Raster data still best served as raster in most circumstances
Advantages of vector tiles

- **Display quality**
  - Best possible resolution for Retina displays
  - Small efficient format

- **Dynamic labeling**
  - Clearer, more readable text
  - On the fly labeling for heads up display

- **Map Styling**
  - Streets, Topo, Canvas from one tileset
  - Day and Night mode
  - Restyling
Cooking process

• Entire world
  - ~ 8hrs on a desktop machine
  - Tiles ~ 13 GB
  - Multiple styles can use the same tiles

• Compared to raster
  - ~ many weeks on a server cluster per map style
  - Tiles ~ 20 TB
See → Understand → Decide

- Field Operations
- Understand Patterns
- Communicate Ideas

Apps
Communicate Ideas

Story Maps

Everyone has a story to tell. Harness the power of maps to tell it.

ArcGIS Maps for Adobe Creative Cloud

ArcGIS Earth

Explorer for ArcGIS
Field Operations

ArcGIS

Monitor the progress and effectiveness of your field operations

Plan, organize, prioritize and assign work

Conduct surveys, inspections, collect new information and document status

Receive assignments, communicate status and coordinate with others

Get where you need to be, optimize your travel routes, use your own data
Field Operations

Dispatcher Assigns Work

Field Workers Receive Assignments

Work as a Team

Now in Beta

Workforce for ArcGIS
Survey123 for ArcGIS

Navigator for ArcGIS

Field Operations

Survey123 for ArcGIS

Capture

Coordinate

Navigate

Plan

Monitor

Source Code Available

Smart Forms
Now in Beta
Drone2Map for ArcGIS

Field Operations

Drone2Map for ArcGIS

2D Imagery, Point Clouds,
3D Meshes
Now in Beta
Monitor the progress and effectiveness of your field operations

Ensure data quality and integrity, make better decisions

Plan, organize, prioritize and assign work

Receive assignments, communicate status and coordinate with others

Conduct surveys, inspections, collect new information and document status

Get where you need to be, optimize your travel routes, use your own data

Field Operations, Understand and Communicate

ArcGIS
Organizations are Fully Leveraging Their Information Assets

Opening up, Integrating and Simplifying Everything