

ArcGIS Online meets Augmented Reality Lars Schmitz, Esri Germany

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Welcome!

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"Augmented Reality is one of the Top 10 strategic IT technologies of our time." – *Gartner Inc.*

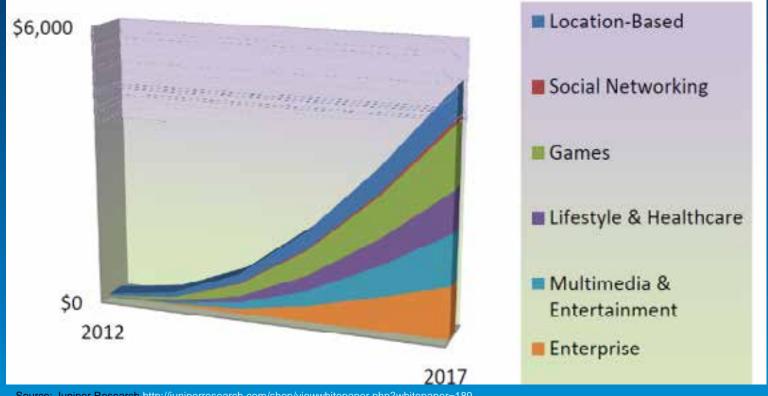


Augmented Reality (AR)

Reality digitally enhanced



The AR Market



Source: Juniper Research http://juniperresearch.com/shop/viewwhitepaper.php?whitepaper=189

Juniper Research forecasts \$1.5 billion revenue stream by 2015

Lego Digital Box





Interactive manual for the Audi A1





Augmented Engineering









Interactive Catalog



Why is AR interesting to us?

- Geodata by definition has a spatial reference
- AR helps to display geodata in a new, intuitive way
- AR makes data visible, that normally would be hidden
 - Planning scenarios
 - Physically hidden features like tubes
 - Historical data

High potential for our users

Flood and Fire Risk







Disaster Response Planning



Situation Awareness



Route Planning



Spread of Disease

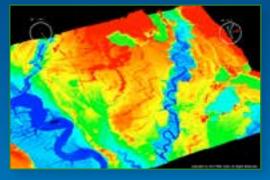


Transmitter Location

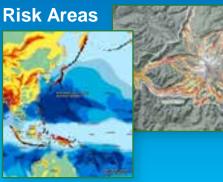




Geomorphic Analysis



Volcanic Hazards



Feasibility Study

- Realize a mobile app that provides an alternative live view
- Enrich ArcGIS platform with AR technology
 - Use data hosted in ArcGIS infrastructure
 - Use Runtime SDK to realize client app
- Use geo-analysis functionality

metaio

Leading AR company Based out of Munich and San Francisco Junaio out-of-box app for Android and iOS



Develop native AR Apps for iOS, Android and PC Object recognition for 2D and 3D Objects SLAM and Visual Search technology 3D Rendering engine

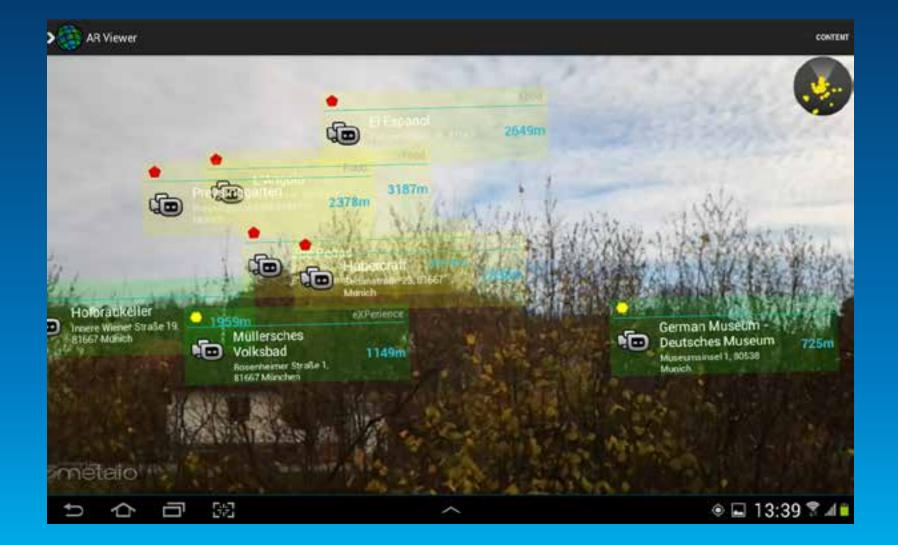
How does the integration work?



Story Map "MyMunich"

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Demo



What's next?

- Render geometry types other than points
- Interact with underlying features
- Offline-mode based on ArcGIS release 10.2.1
- Render 3D data served from Esri technology
- Increased positional accuracy
 - Match with 3D reference data

Thanks

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Understanding our world.