







ESRI Runtime SDK for Android/iOS REGIO mobiilirakendustes

- ESRI päevad 2013



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Kaardikomponendid

- Google Maps (Android/iOS) 
- Apple Maps (Android/iOS) 
- Bing Maps (Android/iOS) 
- MapQuest (Android/iOS) 
- MapBox (iOS) 
- ESRI (Android/iOS/Windows Phone) 
- OpenSource komponendid (route-me, openstreetmap jne)

Miks ESRI?


- Offline kaardid
- *Custom* kaardid
- Erinevate projektsioonide tugi
- 2 platvormi: iOS & Android



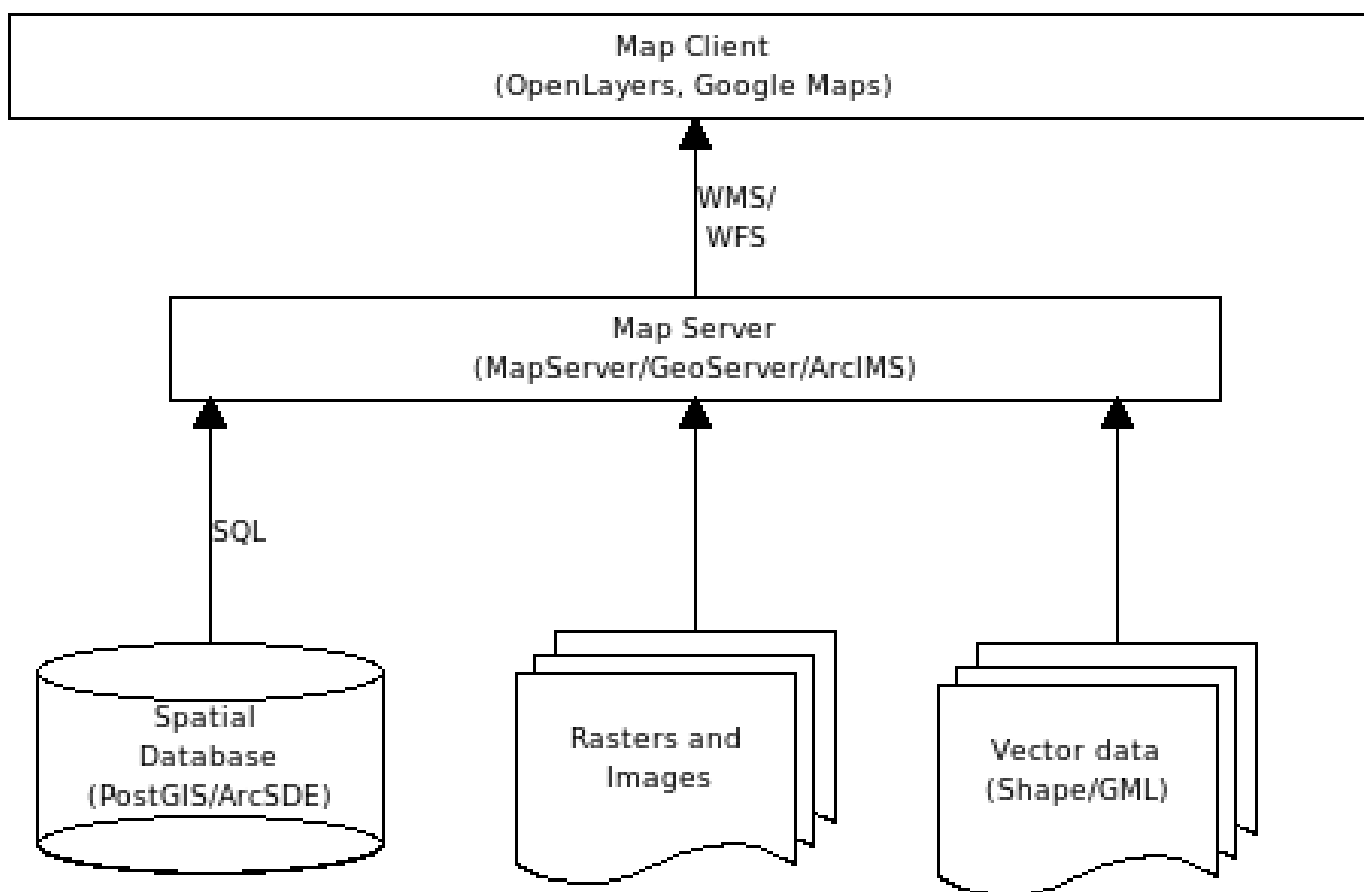
Veebikaart ehk GIS veebis

- Suumitav/nihutatav
- Interaktiivne
- Raster/vektor
- WMS/Tiles

Kuidas veebikaarte teha?

- Mapserver mapserver.org 
- Mapnik mapnik.org 
- Geoserver geoserver.org 
- MapInfo Stratus www.pb.com 
- ESRI ArcGIS Desktop+Server 

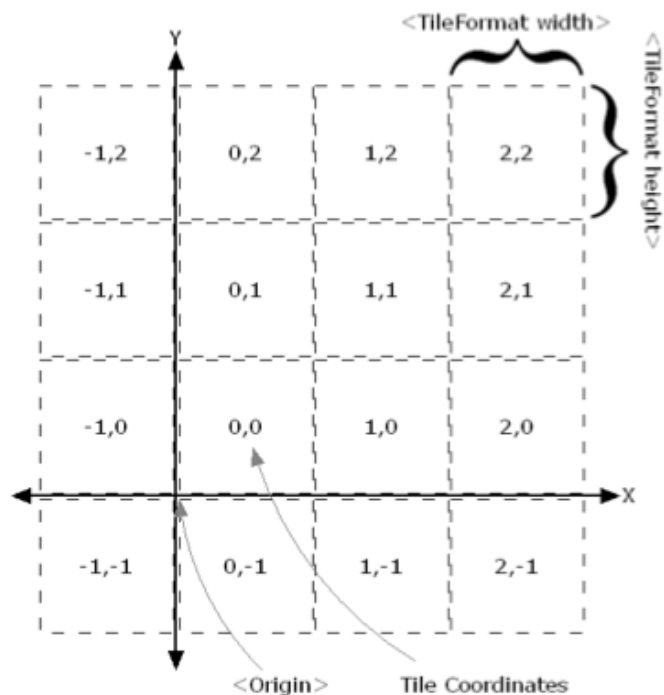
Lihtsustatud veebi GIS'i mudel



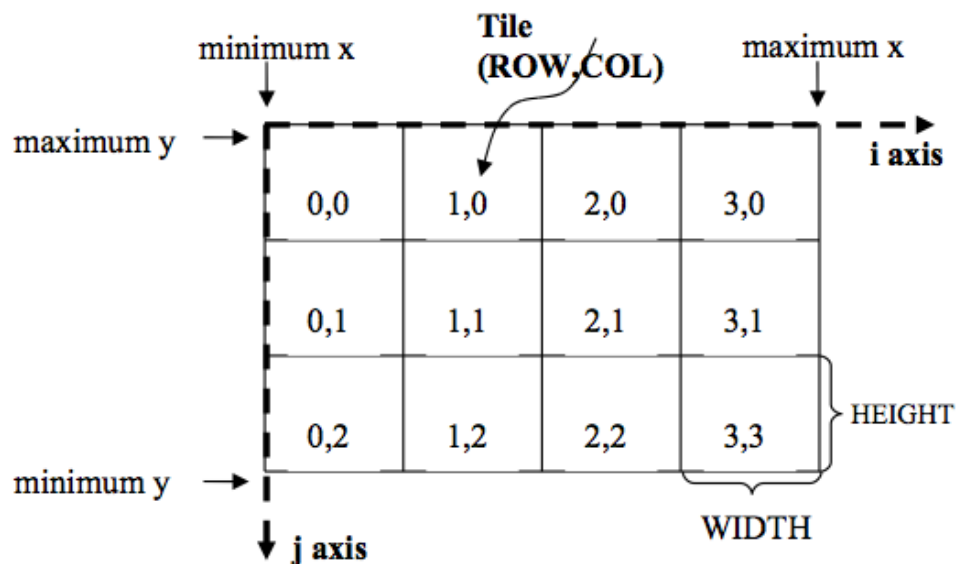
Mapserver map file

```
152
153 LAYER NAME meresygavused
154     PROCESSING "CLOSE_CONNECTION=DEFER"
155     STATUS on
156     DATA "valis/laanemeri_a"
157     TYPE polygon
158     GROUP "taust"
159     CLASSITEM SYGAVUS
160     #MAXSCALEDENOM 300000
161     METADATA
162         "WMS_LAYER_GROUP" "/aluskaart/taust"
163         "WMS_TITLE" "meres_gavused"
164     END
165     PROJECTION
166         "init=epsg:25884"
167     END
168     CLASS EXPRESSION /5-10/
169         STYLE
170             COLOR 129 153 181
171             OUTLINECOLOR 129 153 181
172             WIDTH 0.5
173         END
174     CLASS EXPRESSION /10-20/
175         STYLE
176             COLOR 120 146 176
177             OUTLINECOLOR 120 146 176
178             WIDTH 0.5
179         END
180     END
181
```

Kaardipüramiidid (TMS, WMTS)

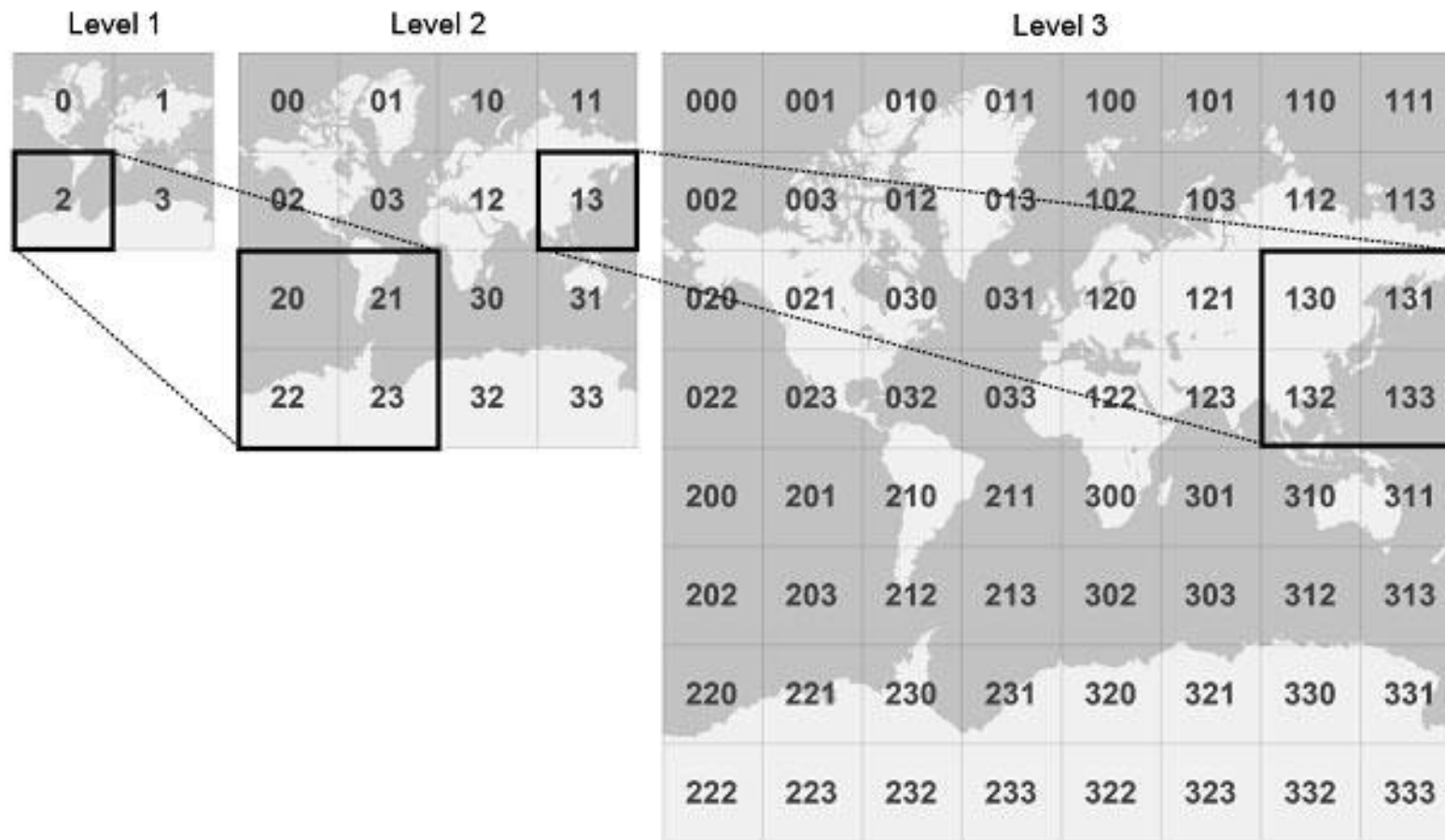


OSGeo-TMS



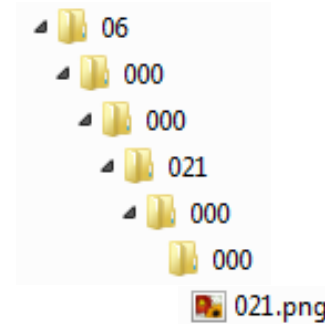
OGC-WMTS

Kaardipüramiidid (QuadKey)

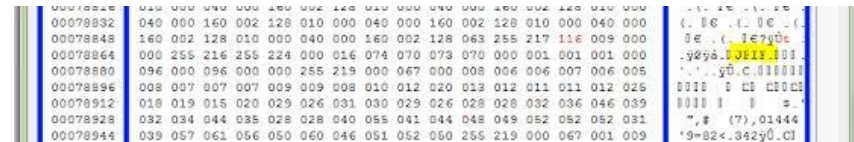


Tilede hoiustamine

- Failisüsteem:
 - zoom/row/col.png
 - 00/000/000/000/000/000/000.png**



- ESRI tilepackage *.pkg
 - ZIP arhiiv
 - sisaldab *.bundlex binaarfaile
 - suletud formaat

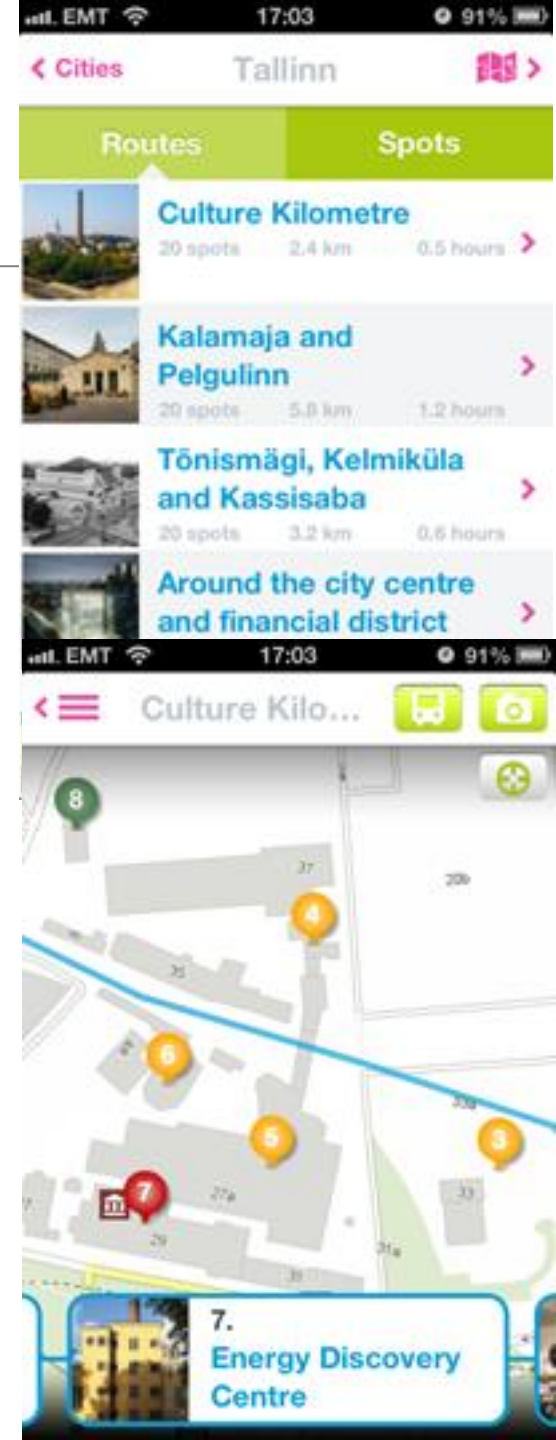


- Andmebaas (SQLite)

	level	row	column	image	type	color
	5	11	21	[BLOB]	tile	
	5	12	21	[BLOB]	link	edecdb

CultureWalks

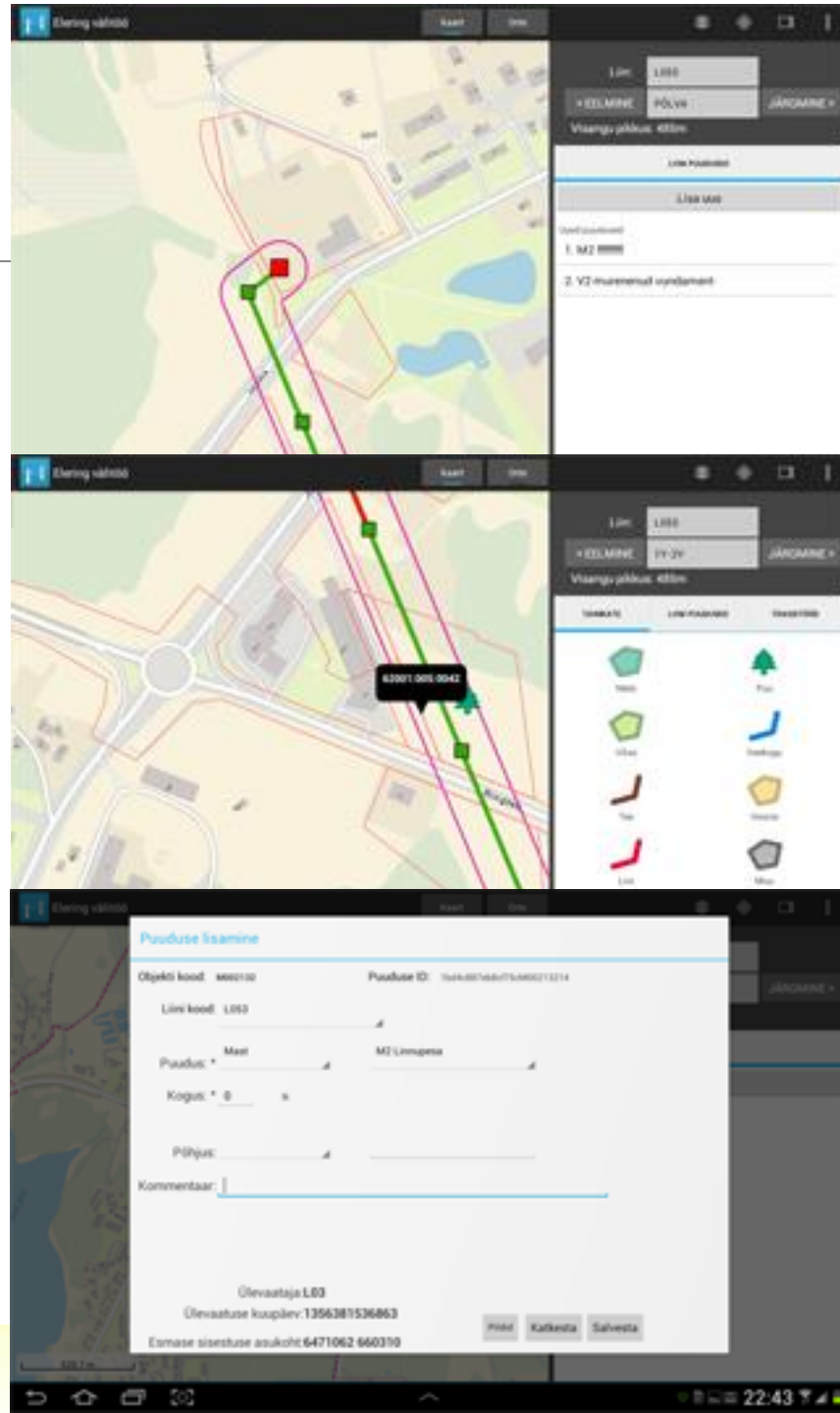
- Tallinn/Turu kaardid ja huvimarsruudid
- Tallinnas ühistranspordipeatused ja muuseumid
- iOS/Android
- Offline



Elering Välitöövahend

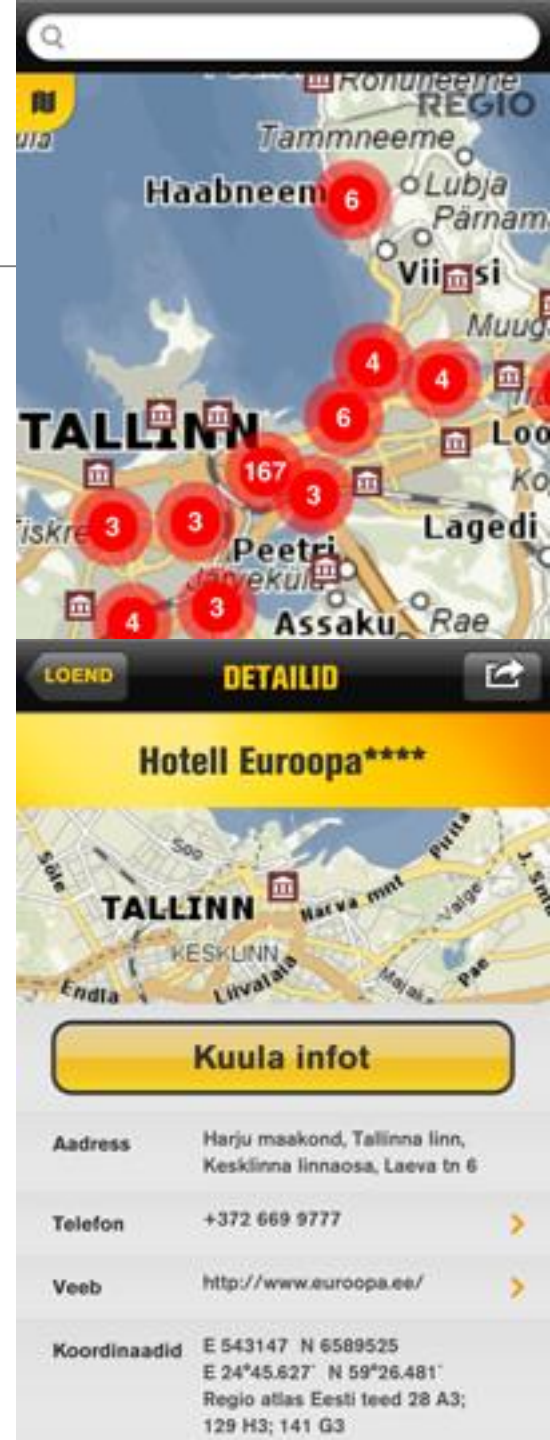
- Android
- Liinide/mastide ülevaatus
- Leitud puuduste sisestamine
- Taimkatte joonistamine
- Fotod
- Import/eksport

- Offline andmebaas
- Offline kaardid ~11GB!!!



REGIO Eesti Teede Atlas 2013

- Android/iOS
- Online/Offline
- Regio kaart
- Regio huvipunktid (sh T-NR)
- Regio geocode, revgeo
- Forsquare pildid, kommentaarid
- Markerite grupeerimine





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