



JBA
consulting

Geographical Information System

- Review
- Prototype Development

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23th November 2010

- Phase 1 Overview, needs assessment and options analysis
 - Task 1.1 Overview of Existing Systems
 - Task 1.2 Needs Assessment of EIB and ITF
 - Task 1.3 Options analysis
- Phase 2 Prototype development and testing
- Phase 3 Additional task

Overview of Existing Systems



- Questionnaire prepared and issued
 - EIB, EC, AfDB, UN and others
 - Issued to 26 people
 - 7 responses
 - Limited use of GIS currently identified
- Review of Funding organisation Sites
 - Various types/formats/complexities
 - Static maps
 - PDF maps
 - Google maps

Interactive Map



Google Maps – World Bank

geo worldbank.org
survive around the world

What's this?
We've marked up Google Maps with World Bank data to give you a visual entry point to browse our projects, news, statistics and public information-center by country. Let us know what you think.

Luxembourg

Legend

- Low income
- Lower Middle Income
- Upper Middle Income
- High income
- Active projects

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Related Links:

- IFC's DoingBusiness maps
- MDG Atlas

DISCLAIMER:
This map is powered by Google Maps. Country borders or names do not necessarily reflect the World Bank Group's official position.

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Country Overview:

- Population:** 487,751.00 (2008)
- GDP (current US\$):** 54,257,260,472.64 (2008)
- GDP growth (annual %):** n/a
- Income Level:** High income: OECD
- World Bank Region:** Europe & Central Asia
- Lending Category:** Not classified

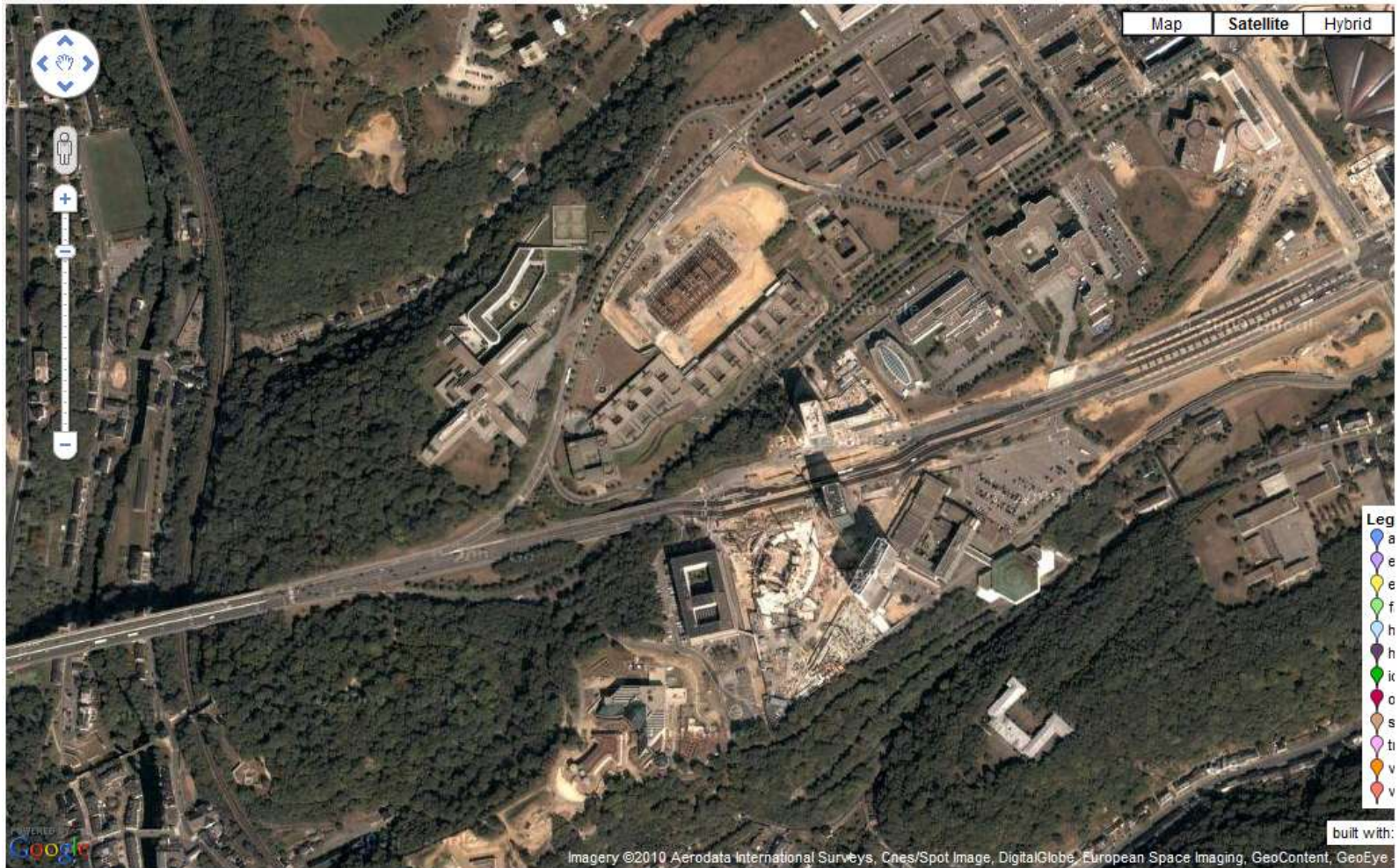
Map Satellite Hybrid

Done Internet | Protected Mode: Off 100%

Google Maps - United Nations - Province Maps



Google Maps - United Nations - Satellite Imagery



Google Maps - Trademark Southern Africa

The screenshot displays the TMSA Map Viewer interface, Version 2.0. The main map shows Southern Africa with various geographical features and administrative boundaries. The interface includes a top navigation bar with tabs for different regions (All, Beira, Central, Dar, Lobito B..., Malanje, Maputo, Nacala, Namibe, Northern, North-So..., Trans-C..., Tr) and a search bar. The left sidebar contains map controls and a legend. The legend is open, showing a list of map themes and features. The search bar is also open, showing search results for 'Regions'.

TMSA Map Viewer Version 2.0

Map Themes: Select Map Theme: Google Hybrid

LEGEND

- Corridors
- NS Corridors
- Rail
- Rail Corridors
- Borderports
- Mining
- Ports
- ICT
- Energy
- Pre-2010
- Photography

Imagery sources: Predominantly from DigitalGlobe and MDA Federal

Administrative Boundaries

- Country boundaries
- Provincial boundaries

Populated places

Towns and settlements

- Class 1 towns
- Class 2 towns
- Class 3 towns

Transport Network

- National and major roads
- Main roads

Search map features

Find: Regions

Named: k

[Kafue - Livingston](#)

[Kasumbalesa - Kolwezi](#)

[Kazunqula - Gabarone](#)

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Visitor Count: Last Update: 2010/10/01 08:02:58 AM

Latitude: 4.7406754 Longitude: 55.4589844 Level: 4

- Possibly the most sophisticated and advanced site
- It includes the standard GIS functionality:
 - Layer control
 - Searches
- Two elements:
 - Public facing
 - Security accessed

Project Management Tools (PMT)



- MS Access database
- Contains about 40 projects
- Project management data
- GIS data (pairs of coordinates in a relational not spatial database)
- Public / Confidential data
- Accessed directly from a customised database (PMT export)
- Managed by EIB/ITF
- Enhancements
 - REC
 - Links to more detailed project data

- EIB IT specified that:
 - Development language: Java or PHP
 - Database: Oracle or MySQL
- Google Maps solution
- Compatibility
 - With as many other systems as possible
 - Data conversion between common systems / file formats

- Mapping data is freely available via Google
- Project data
 - general public access – no confidential
 - Authorised users – confidential
 - Actual security requirements have yet to be defined
 - Range of options – encrypted at various levels as necessary

- Two domains have been setup
- Neither are active yet – issues with MS Access database

- ITF-GIS.NET
- ITF-GIS.EU

ITF GIS Prototype (if live demonstration not possible)

The screenshot displays a web-based GIS application interface. At the top, there are logos for the European Investment Bank and the European Union Africa Infrastructure Trust Fund. The main area is a world map with a search bar and navigation controls on the left. A sidebar on the left contains icons for home, search, and other functions. The map shows various countries and regions, with some areas highlighted in green. At the bottom, there is a status bar with the text "Local intranet | Protected Mode: Off" and a zoom level of 100%.

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Local intranet | Protected Mode: Off

Prototype - Energy

The screenshot shows a web application interface for energy projects. On the left, a red sidebar contains a search bar and a list of projects under the heading "Energy". The main area displays a map of Africa and the Middle East, with various countries labeled. At the top right, there are logos for the European Investment Bank and the European Union Africa Infrastructure Trust Fund. Below these logos are map navigation controls: "Map", "Satellite", "Hybrid", and "Terrain".

Energy

General information about this sector will appear here...

Projects

Code	Short Description
2009/06	Benin - Togo Power Rehabilitation
n/a	Cahora Bassa North Bank
n/a	Capacity building for environmental impact assessment and clean development mechanism initiatives
2008/01	Capital Interconnector
2009/04	DR Congo - Zambia Interconnector
08/03	ECOWAS Electricity Regulation
n/a	Engaging Banks in Financing Energy Transition Projects in East Africa
2007/04	Ethiopia-Kenya Interconnector
2007/03	Felou
n/a	Geothermal Risk Mitigation Facility

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Local intranet | Protected Mode: Off

Prototype - Transportation

The screenshot displays a web application interface for a transportation prototype. It features a world map as the main visual element, with a sidebar on the left containing a list of transport projects. The sidebar is titled 'Transport' and includes a 'General Information' section and a 'Projects' table. The 'Projects' table lists various infrastructure projects with their codes and descriptions. The map shows major landmasses and oceans, with a search bar and navigation controls at the top. Logos for the European Investment Bank and the European Union Africa Infrastructure Trust Fund are visible in the top right corner. The bottom of the screen shows a status bar with 'Local intranet | Protected Mode: Off' and a zoom level of 100%.

Code	Short Description
n/a	Access to Douala
n/a	Aéroport International Blaise Diagne
2009/07	ASA II Airports
2008/04	Beira-Blantyre Corridor
n/a	BOAD Credit Line
n/a	Credit Line Transport Upgrade Burkina
2009/22	Ethiopia Djibouti Railway
2009/16	Expansion of Port of Walvis Bay
2009/08	Gambia Tollbridge
n/a	Isaka-Kigali / Keza-Muzongati Railway Project

Prototype – Point

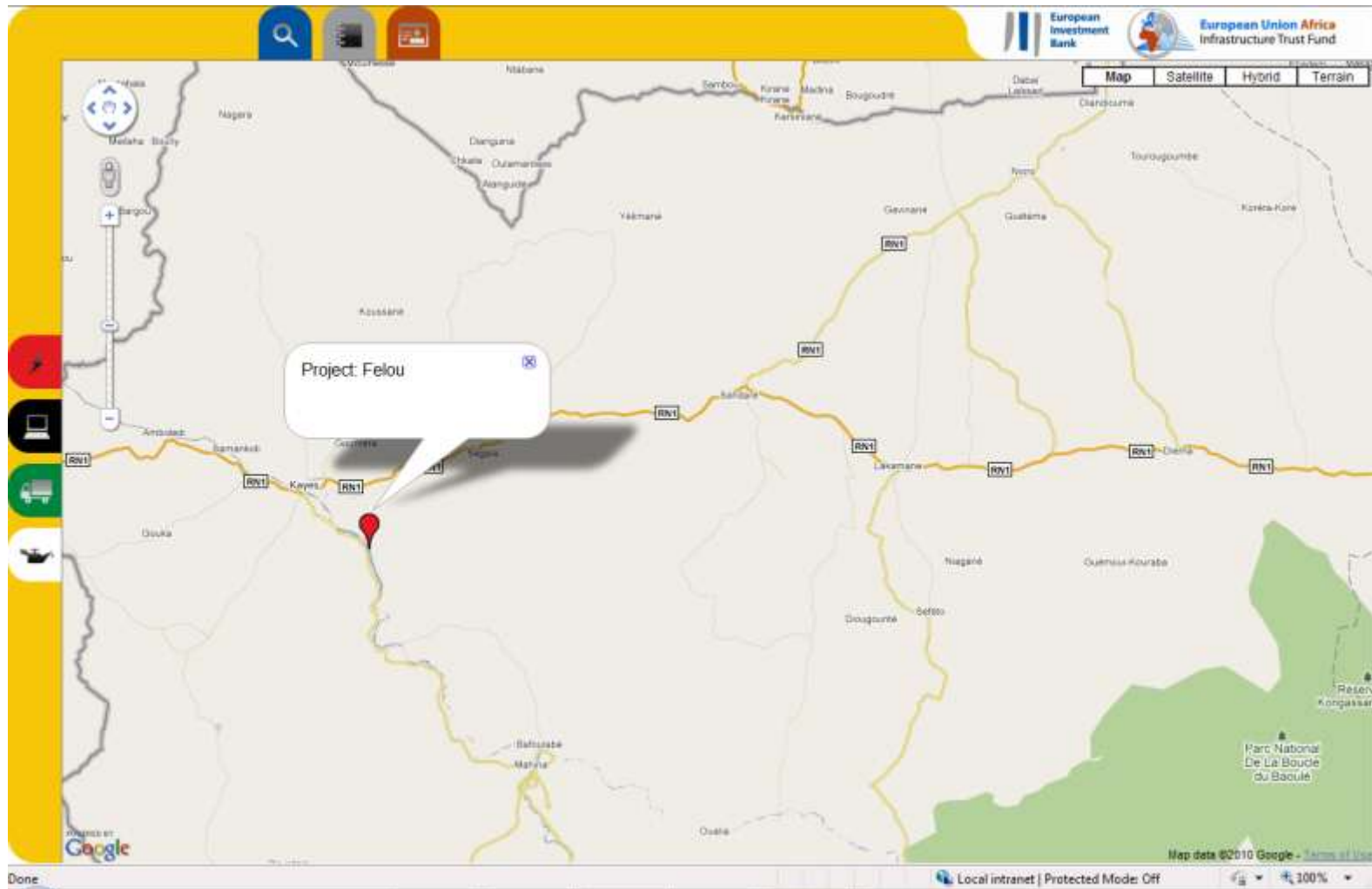
The screenshot displays a web application interface. At the top right, there are logos for the European Investment Bank and the European Union Africa Infrastructure Trust Fund. Below these logos are map style controls: Map, Satellite, Hybrid, and Terrain. The main area is a map of Africa with a green pin on Botswana. A sidebar on the left is titled 'Transport' and contains a 'General Information' section and a 'Projects' table.

Code	Short Description
n/a	Access to Douala
n/a	Aéroport International Blaise Diagne
2009/07	AGA II Airports
2009/04	Beira-Blantyre Corridor
n/a	BOAD Credit Line
n/a	Credit Line Transport Upgrade Burkina
2009/22	Ethiopia Djibouti Railway
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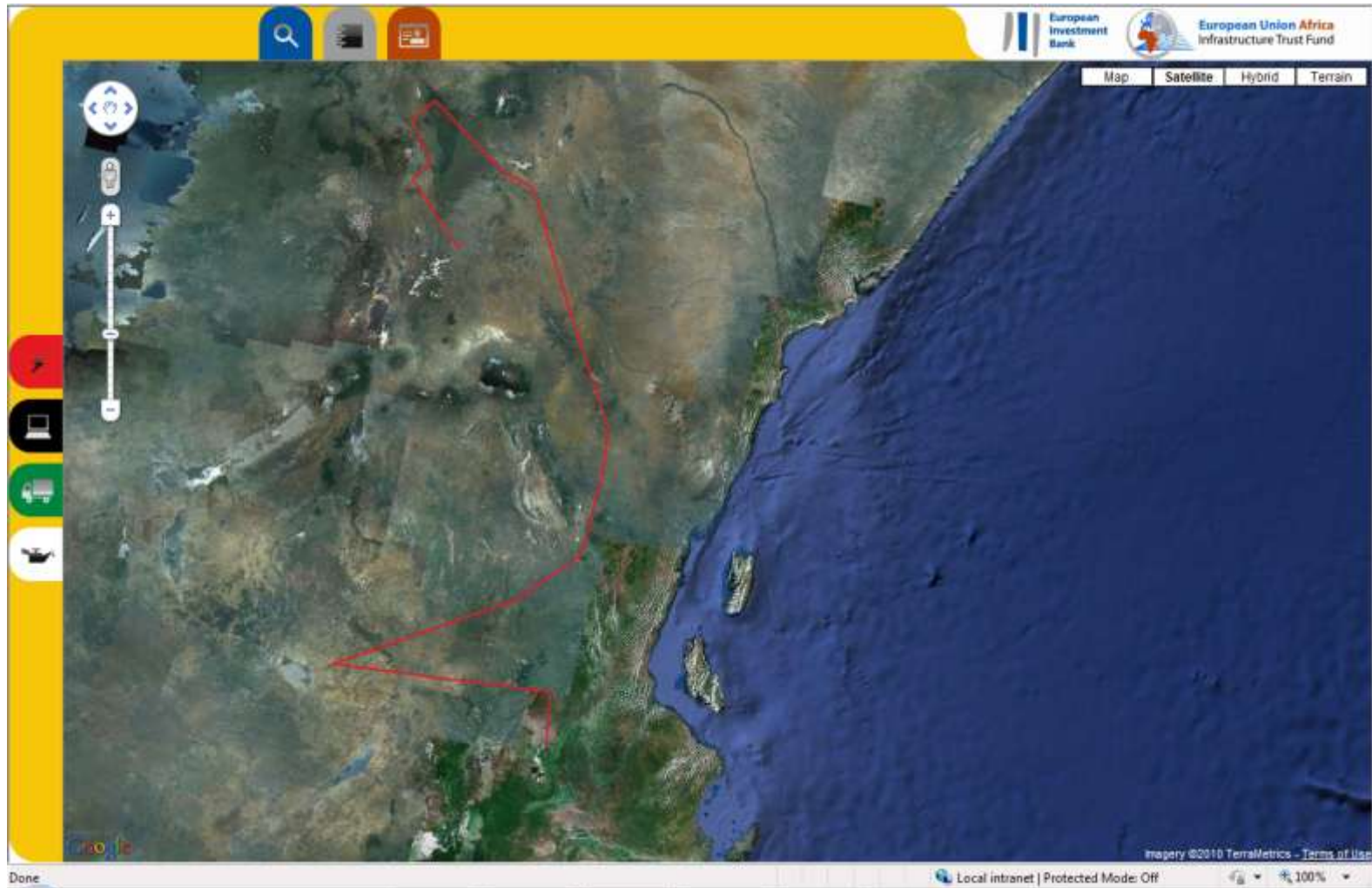
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Local intranet | Protected Mode: Off

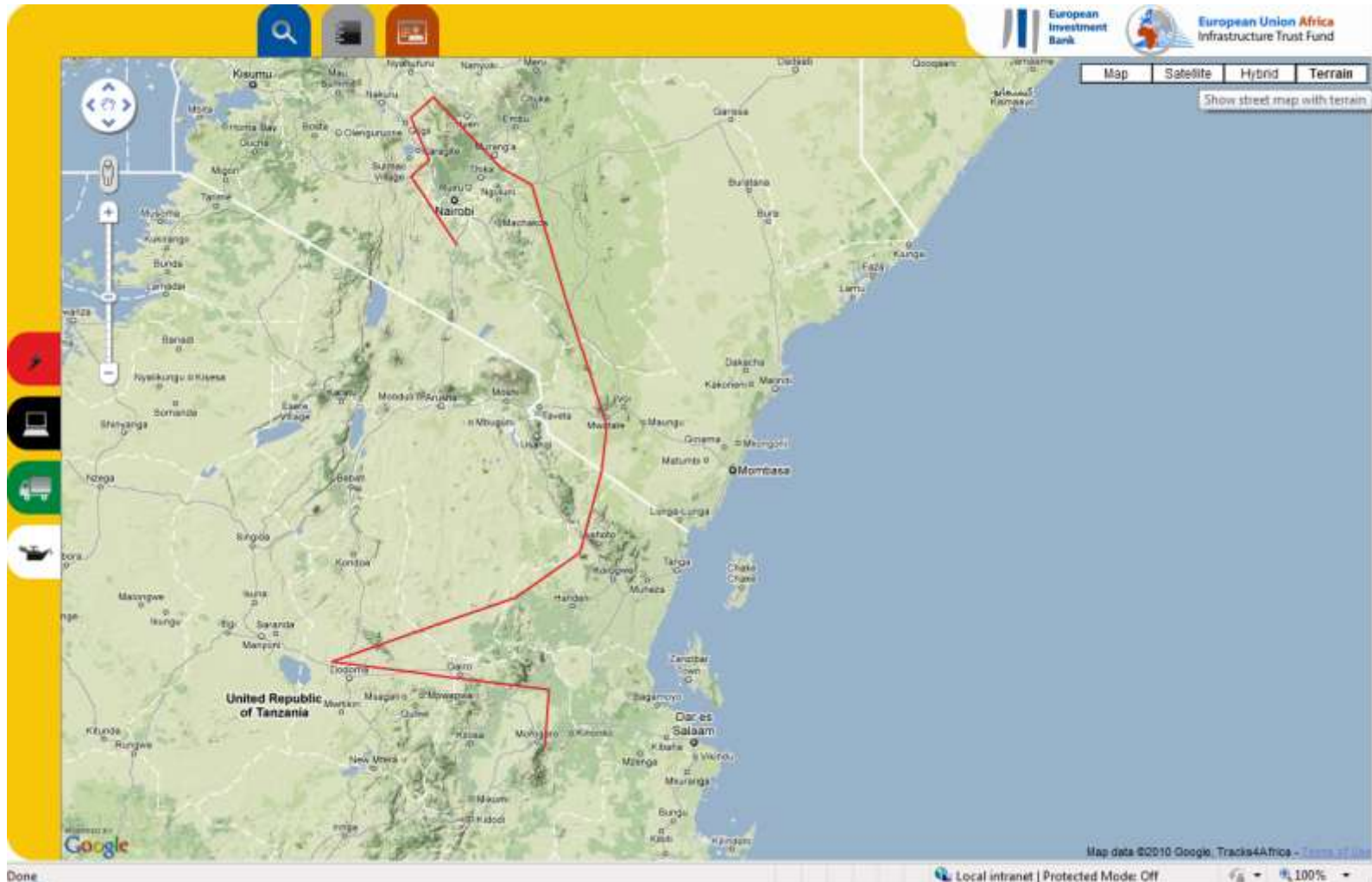
Prototype – Callout Boxes



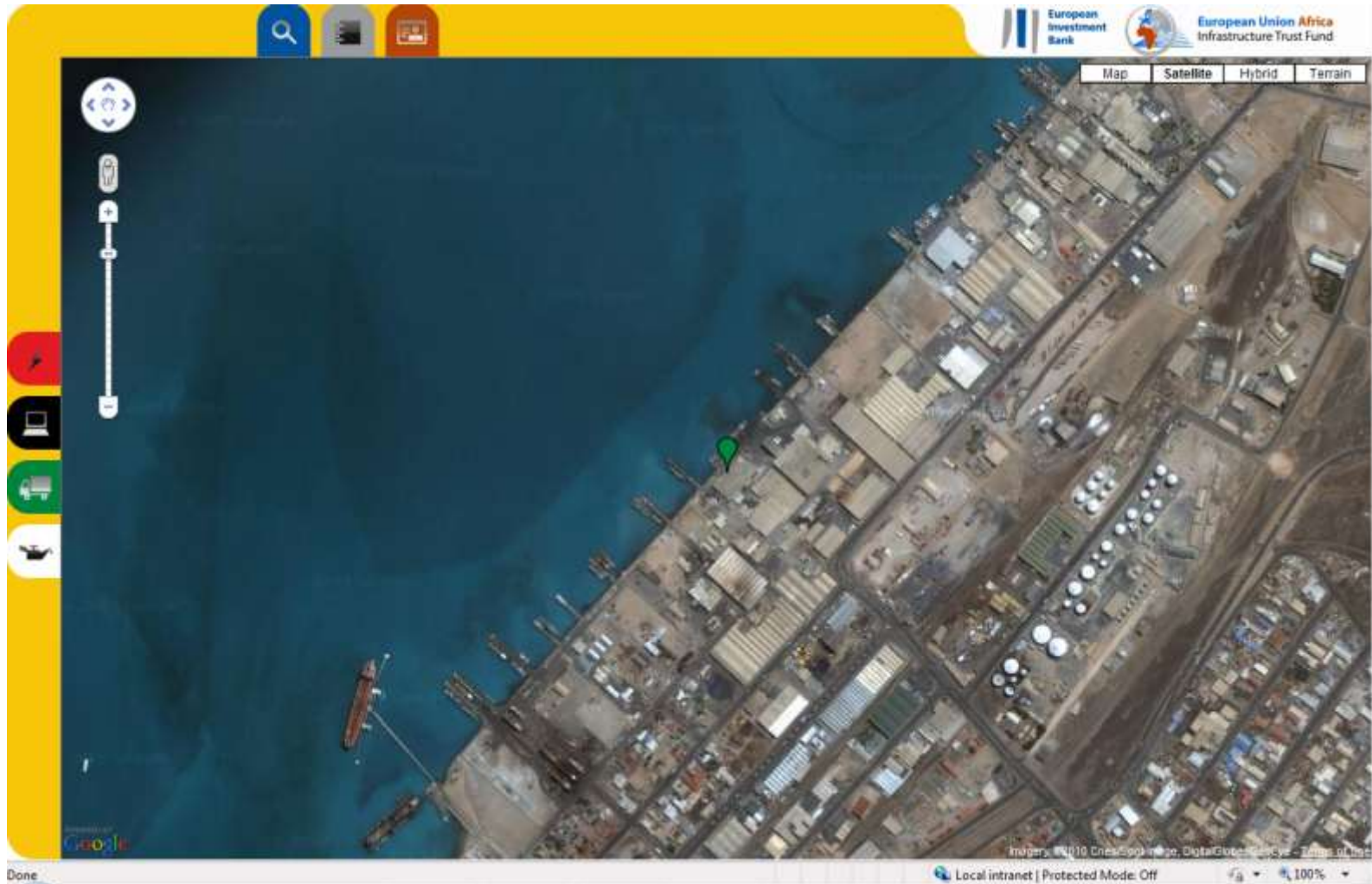
Prototype – Satellite Imagery



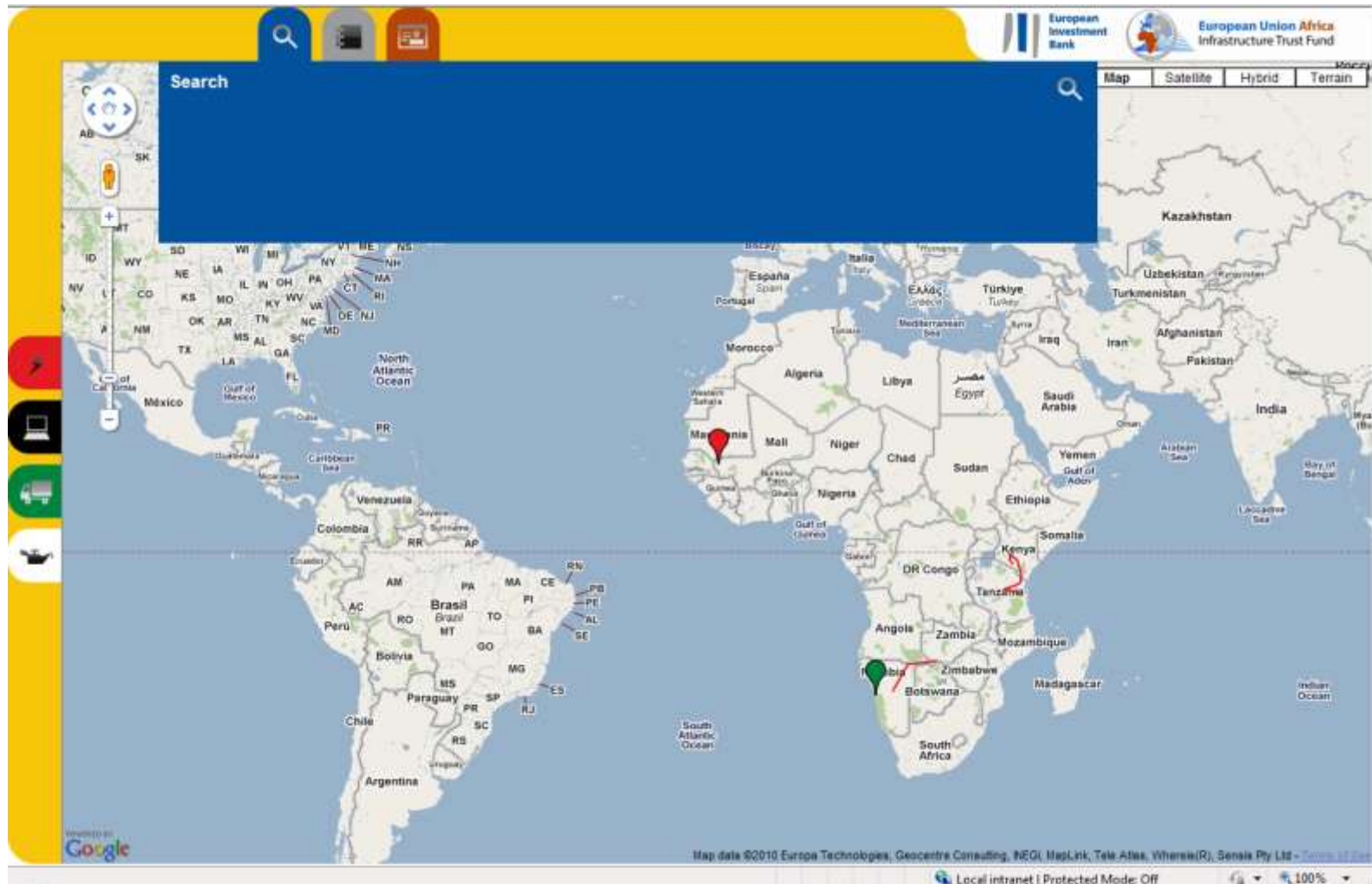
Prototype - Terrain



Prototype – Hi-Res Imagery



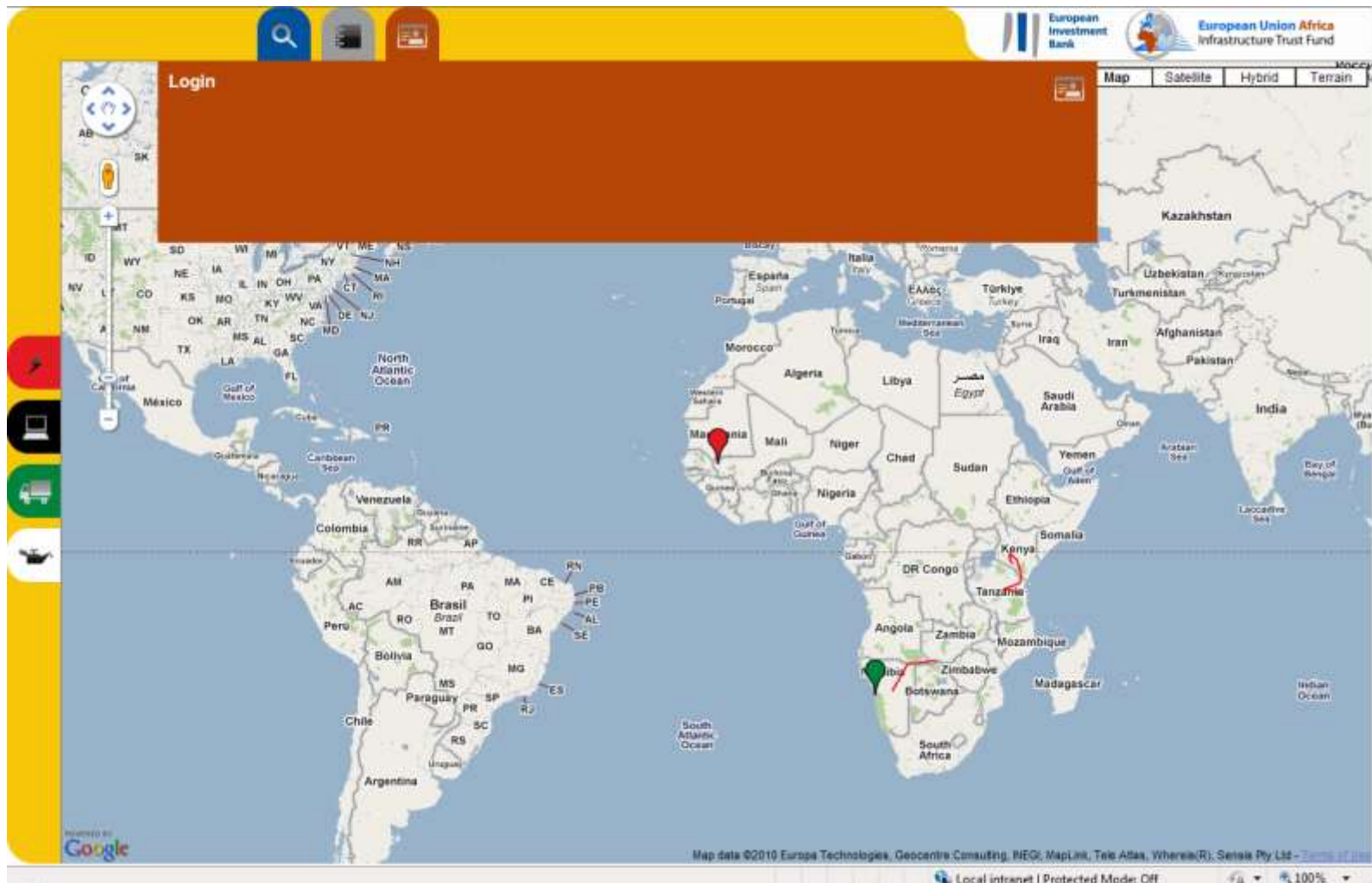
Prototype – Search Form (in progress)



Prototype – Report Form (in progress)

The screenshot displays a web-based map application. At the top, there are logos for the European Investment Bank and the European Union Africa Infrastructure Trust Fund. A search bar and a 'Report' button are visible in the top left. The main area is a world map with a semi-transparent 'Report' form overlaid on the left side. The map shows several countries highlighted with red and green markers: Mali, Nigeria, Kenya, Tanzania, Angola, Zambia, Mozambique, Zimbabwe, and Botswana. The bottom of the screen features a status bar with the text 'Local intranet | Protected Mode: Off' and a zoom level of 100%.

Prototype – Login Form (in progress)



Extended Data Box

The screenshot displays a web application interface for project management. At the top, there are logos for the European Investment Bank and the European Union Africa Infrastructure Trust Fund. A navigation bar includes a search icon, a home icon, a document icon, and a location pin icon. The main area features a world map with a yellow location pin over Mali. A 'Project Details' popup window is open over the pin, containing the following information:

Project Details	
Code:	2007/03
Name:	Felou
Trust Fund:	EU-Africa ITF
Status:	Active
Sector:	Energy
Related Documents:	None

Below the popup, the map shows various countries and regions, including Mali, Niger, Chad, Sudan, Nigeria, Ethiopia, Kenya, Tanzania, Angola, Zambia, Mozambique, Namibia, Botswana, Zimbabwe, Madagascar, and others. The map is powered by Google and includes a copyright notice for 2010 Europa Technologies, Geocentre Consulting, NEOL, MapLink, TeX, SGA, Wherax(R), Senak Pty Ltd - Terms of Use.

- Arab Maghreb Union (AMU)
- Community of Sahel-Saharan States (CEN-SAD)
- Common Market for Eastern and Southern Africa (COMESA)
- East African Community (EAC)
- Economic Community of Central African States (ECCAS/CEEAC)
- Economic Community of West African States (ECOWAS)
- Intergovernmental Authority on Development (IGAD)
- Southern African Development Community (SADC)

The screenshot displays a web application interface for project management. At the top right, there are logos for the **European Investment Bank** and the **European Union Africa Infrastructure Trust Fund**. The main content area features a world map with a blue settings overlay on the left side. The settings overlay includes a search icon, a 'View Projects by' dropdown menu set to 'REC', and a 'Sector' dropdown menu set to 'REC'. A 'Related Documents' popup is visible over the map, showing 'None'. The map shows various countries, with a yellow pin on Mali. The bottom of the screen shows a taskbar with 'Done', 'Local intranet | Protected Mode: Off', and a zoom level of '100%'.

Regional Economic Communities

European Investment Bank

European Union Africa Infrastructure Trust Fund

Map Satellite Hybrid Terrain

Project Details

Code:	2009/39
Name:	Rehabilitation of the Great East Road
Trust Fund:	EU-Africa ITF
Status:	Active
Sector:	Transport
Related Documents:	None

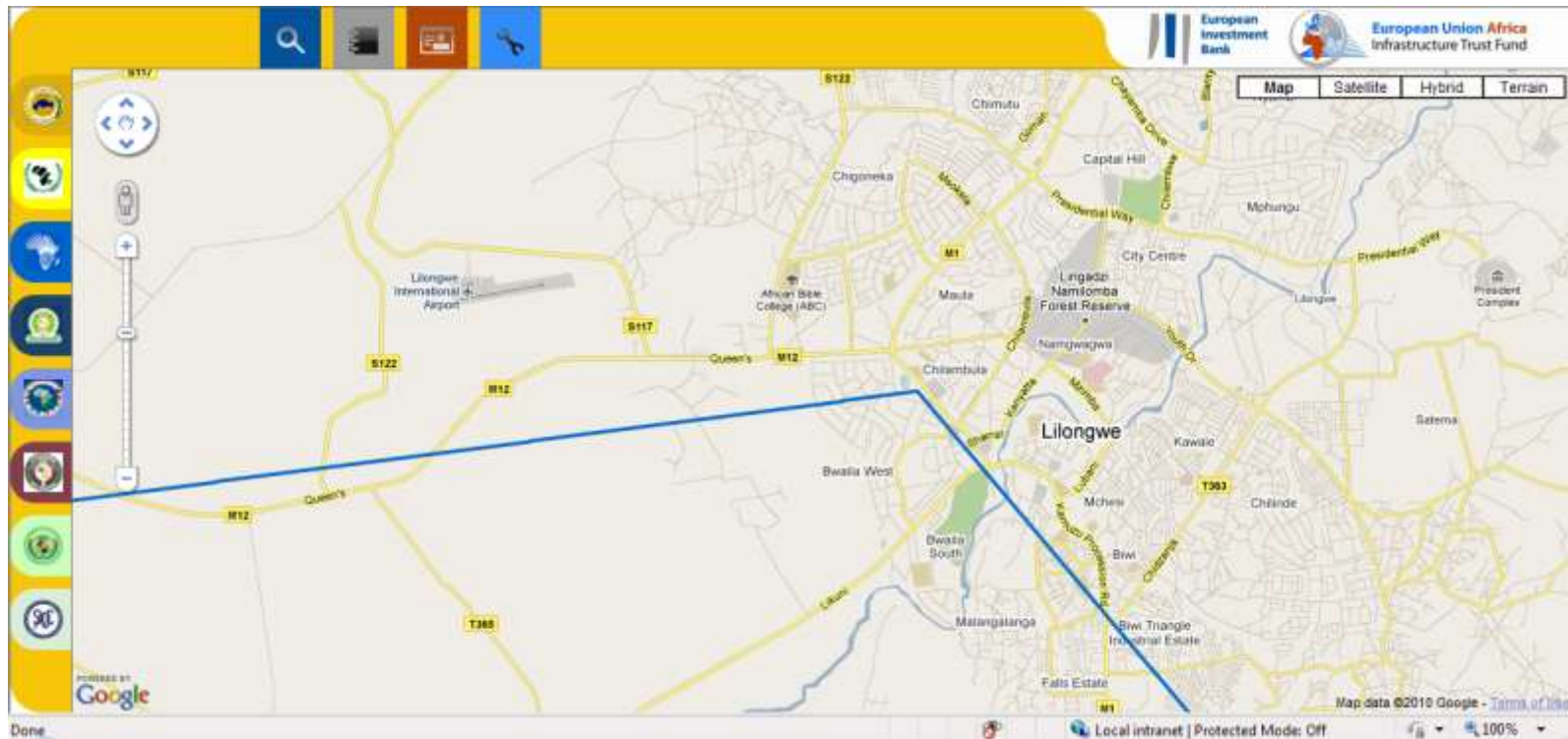
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Done

Local intranet | Protected Mode: Off

100%

Data Resolution



- Searches
- Reports
- Login (public/confidential data)
- Creating GIS features (points, lines and regions)
- Data links (already in database)
 - [://www.eib.org/projects/pipeline/2005/20050272.htm?lang=-en](http://www.eib.org/projects/pipeline/2005/20050272.htm?lang=-en)
 - http://www.kfw-entwicklungsbank.de/EN_Home/Countries%2c_Programmes_and_Projects/Sub-Saharan_Africa/Regional_activities/Project_-_Electricity_supply.jsp

Questions and Feedback



Thank you

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