

Geoscience

Company Profile

Introduction

nomad labs was established as an IT company in 2005. The company provides turn-key geospatial solutions to a wide range of industry sectors. The company focuses on providing consultancy to organizations that are interested in

- adding value to existing data to enter new markets
- integrating geographic intelligence into their existing systems
- implementing innovative solutions that utilize satellite & remotely sensed imagery
- location based services utilizing GPS and mobile networks
- spatial data infrastructure development for e-governments

nomad labs currently operates in Europe, Australia and South Asia.

Core Team

The core team creates the blueprint for the service and leverages on its theoretical as well as industry experience to provide the expected value to its customers.

Kashif Rasul • Phd, Mathematics (Max Planck Institute, Germany)

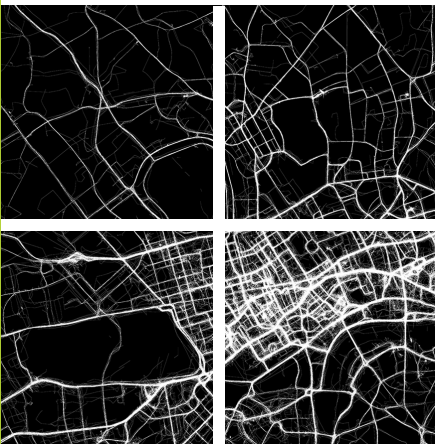
Zaeem Ali • Phd, Mathematics (Melb. Uni, Australia)

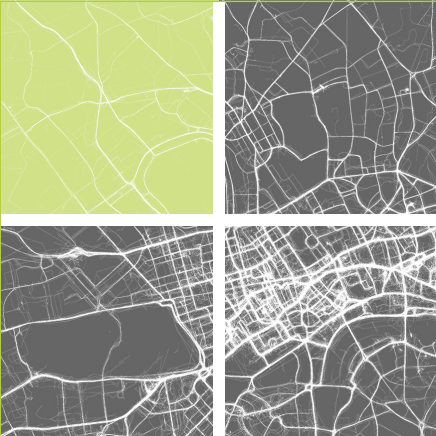
Shoaib Burq • BEng. Geomatics and BSc. Computer Science (Melb. Uni, Australia)

Saqib Rasul • BSc. Computer Science and BEng. Aerospace (RMIT, Australia)

Usman Aleem • BSc. Computer Science (LUMS, Pakistan)

Aleksandra Herzog • Graphic Design (SfGB, Switzerland), www.nomad-graphics.com





Geospatial Science Core Capabilities

Products

In house products developed:

GeoDelivery™

Since the geospatial industry is in its infancy, there are various inefficiencies in the market which are hindering the growth in this sector. Few of the issues that the GIS data providers in the industry faces are:

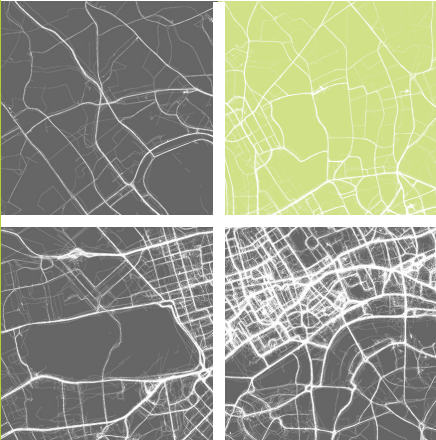
- No customer confidence in data products
- Purchasing process is slow, complicated and unintuitive
- Pricing is too high
- Licensing is too complicated

nomad labs has developed an indigenous platform which allows data providers the capability to make their data rapidly available to the market in a user friendly and intuitive way. The platform is based on ASP (application service provider) model which ensures that the data providers do not have to invest in exuberant licensing cost and hardware involved in geospatial industry. The product is a turn key solution for geospatial data providers. It can provide:

- Rapid access to GIS data (via internet)
- Clear indication of source
- Clear indication of price
- Makes updating of data simple
- e-commerce support

GeoDelivery™ can also add value to any organization's geospatial data by:

- Allowing fine grain control of pricing to stimulate demand
- On-the-fly modification of licensing
- Aim at the classic customers of GIS



- Targeted-industry front-end
- Accurate audit trail on sales and marketing
- Search by spatial context
- Conventional search by keyword, target-industry, data-type
- Intuitive delivery of data

Solutions

nomad labs geospatial science group provides solutions for:

GIS applications

- Web based GIS applications
- Geographic databases
- Desktop GIS modeling & analysis
- Mobile GIS applications
- 3D GIS analysis & visualization

Navigation

- In-car navigation
- Routing
- Vehicle tracking & fleet management
- Live data integration (e.g. weather & traffic conditions)
- Mobile GPS based applications
- RFID based indoor applications
- Asset management

Geomarketing

- Location of target market
- Geocoding of customer profiles
- Geocoding of corporate competition

National Spatial Data Infrastructure (NSDI) for e-Government

- Integration of local, provincial & national geographic data
- Geographic data clearing houses
- Geographic data licensing models
- Geographic data pricing
- Geographic metadata development

Remote Sensing

- Management of natural resources
- Precision agriculture
- Crop yield estimation
- Hyperspectral data analysis
- Image processing

High Performance Computing for Flow Modeling

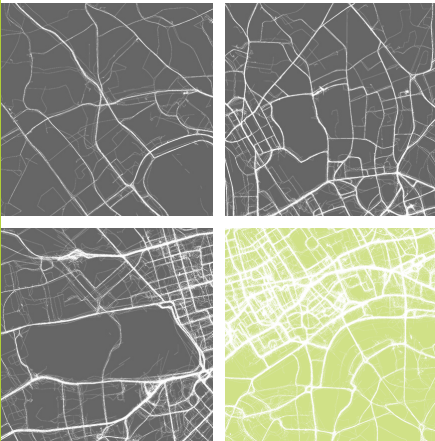
- Management of drinking water supplies
- Tracking of water pollutants
- Flood map creation
- Computing flow routing and accumulation on massive grid-based terrains

Hosting services

- Management of high-traffic and high-availability web applications
- Setup and configuration of load-balanced cluster systems
- Fault tolerance using commodity and off-the-shelf hardware

Digital Photogrammetry Services

- Infrastructure mapping
- Large and small scale mapping
- Ortho-rectified image mapping
- 3-dimensional modelling



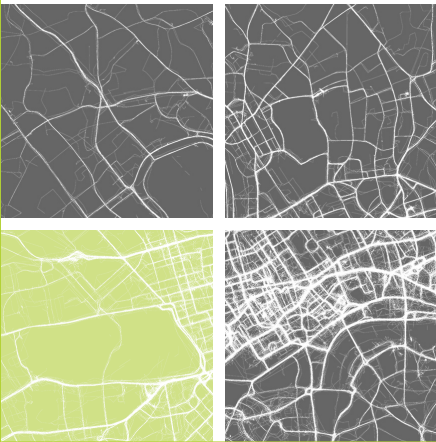
Target Industries

Federal, Provincial & District Governments, Public Utilities, Transport, Telecommunication, Consulting Engineers, Emergency Services, Health, Defense, Environmental & Waste Management, Water Resource Management.

Third-party Products

Capabilities exist in the following geospatial products:

- ESRI's suit of products
- MapInfo suit of products
- ENVI & IDL
- Open Source solutions



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