

LAB WORK 04.

INTERNET BACKBONE, ISP TIERS AND DC TIERS. EXCURSION TO DC.

1. PURPOSE OF WORK

- 1.1. Get experience of career guidance on DC or ISP.
- 1.2. View of the technology of welding optical cable.
- 1.3. Get initial information about the Backbone level of Internet.

2. TASKS FOR WORK

- 2.1. Visit to a modern data center of ISP.
- 2.2. Study of technical data and designs of Fiber Optic media and connections (dark and light).
- 2.3. View short presentation about RETN Company and about solution on Backbone Internet.
- 2.4. Get initial information about the Backbone level of Internet for Your Region.



3. REPORT

Make a report about this work (**Take a together selfie on Excursion Time and make Screenshot about Backbone of Your Region**) and send it to the teacher's email.

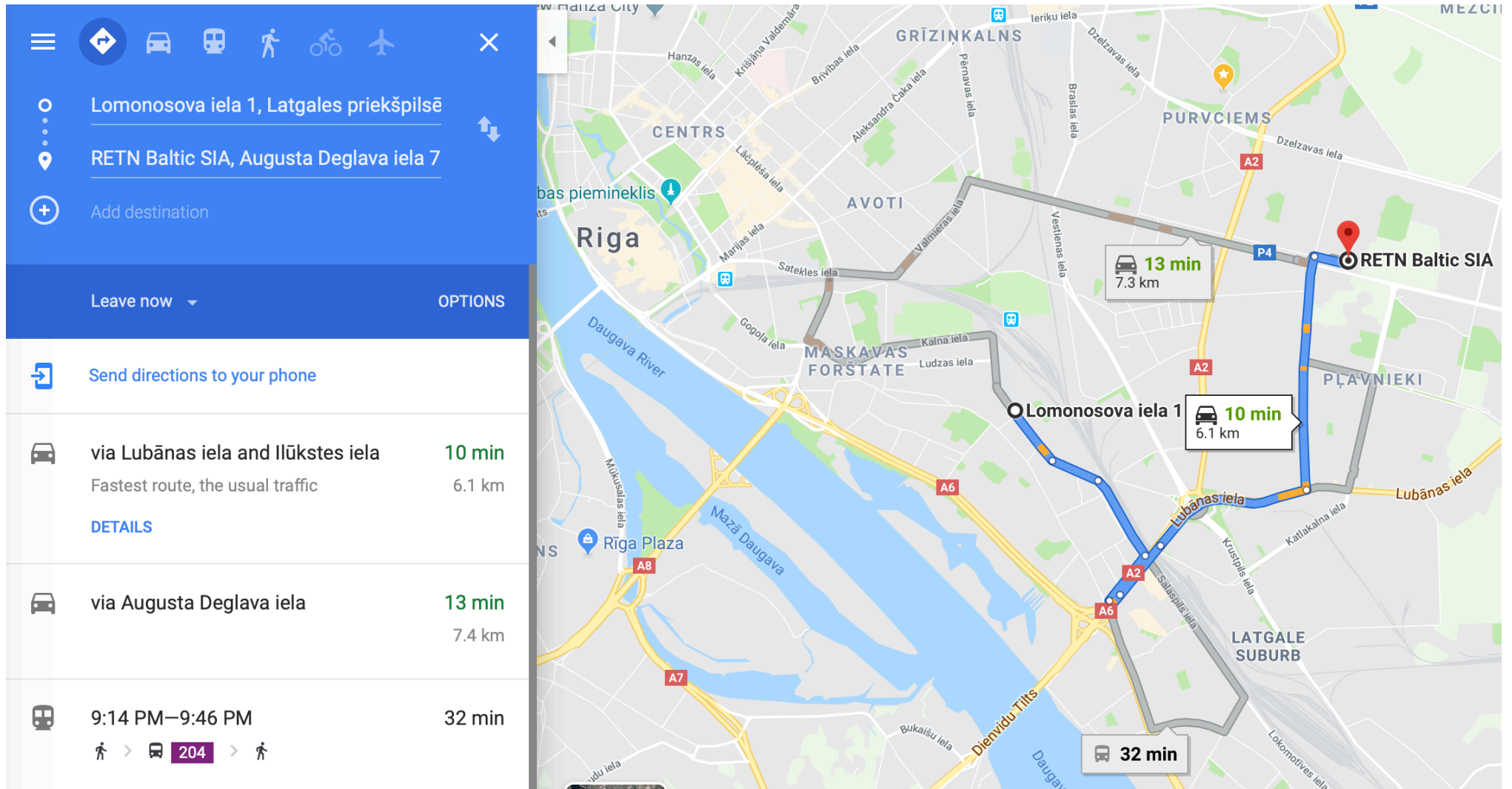
REPORT FOR LAB WORK 04: INTERNET BACKBONE, ISP TIERS AND DC TIERS. EXCURSION TO DC.

Student Name Surname	Student ID	Date

PHOTO 1, SCREENSHOT 1, SCREENSHOT 2.

4. GUIDELINES

4.1. ROUTE FROM ISMA TO RETN COMP.



4.2. ABOUT ISP RETN COMPANY ([HTTP://RETN.NET](http://retn.net)).

English market@retn.net +44 20 75176400 Search

RETN About RETN Network Services Support Contacts Customer Portal

TRANSKZ
The RETN Eurasian Way

Map Key
South Way North Way Central Way RETN PoPs [Learn more](#)

RETN is a leading international network service provider. Synthesising a global reach with a local approach, our goal is simple: to improve connectivity between our clients and the largest telecommunications nodes worldwide.

More than 1700 international and local carriers and corporate customers use various RETN network telecommunications services to transmit their data with superior performance from multiple locations worldwide.

[Learn more about RETN](#)


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KEY FACTS ABOUT RETN

 52 000 km of lit fibre

 3 continents, 37 countries connected

 1200+ clients

 250+ on-net PoPs

 200+ Dedicated, Passionate Staff

 10 Tbps of traffic on European Ring

RETN Baltic SIA

A. Deglava str. 73,

LV-1082 Riga, Latvia

Tel.: +371 67150000

Email: market@retn.net



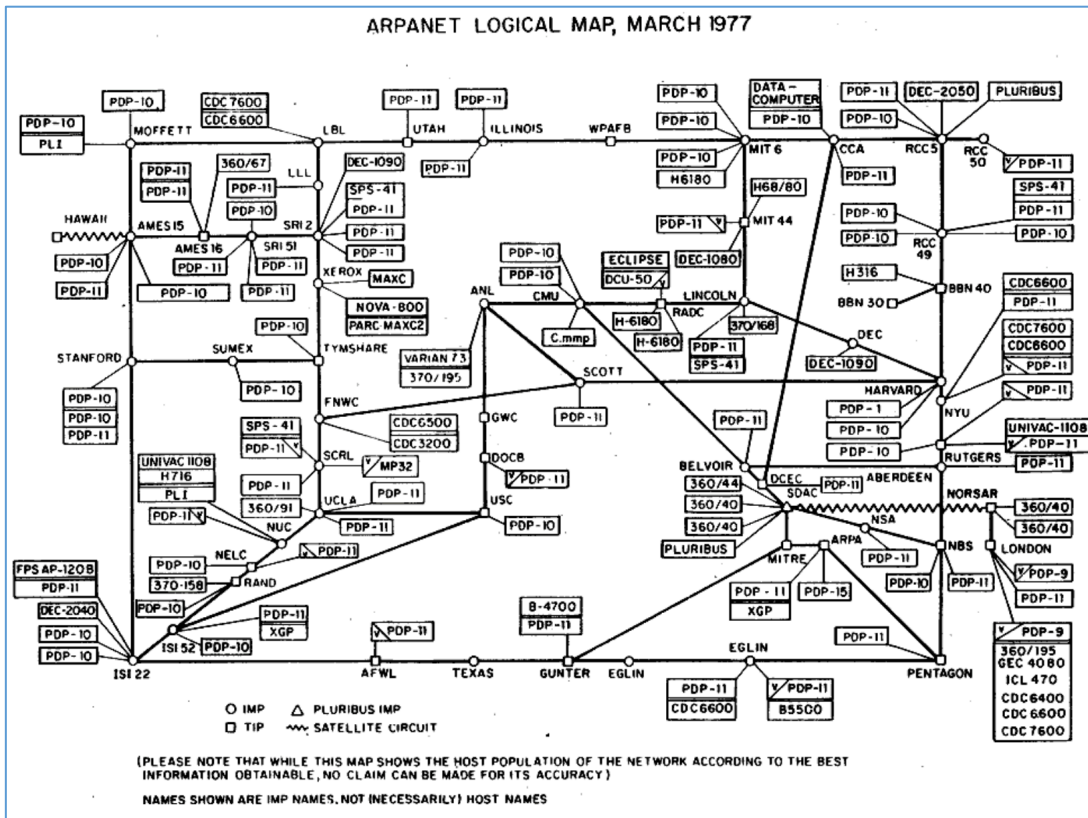
4.3. ABOUT BACKBONE OF INTERNET.

4.3.1. Internet and Backbone levels.

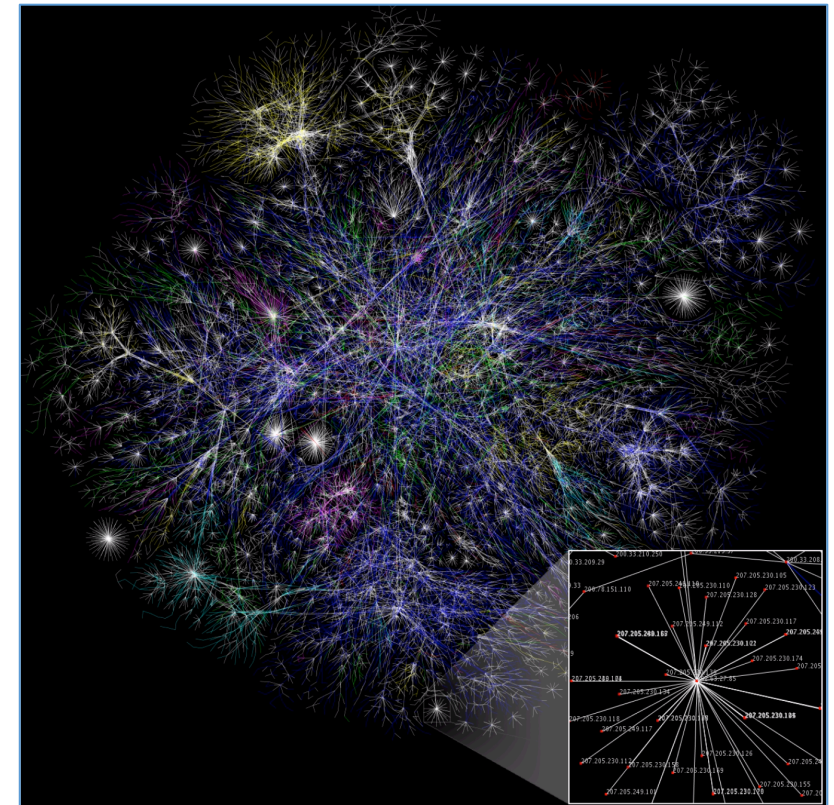
Read key information about the Internet and about the Backbone levels (Tier-1, Tier-2) of Internet.

a) <https://www.itgsnews.com/mapping-internet-maps/>

b) https://en.wikipedia.org/wiki/Tier_1_network



Pic. 1. [First Internet Backbone – ARPANET.](#)

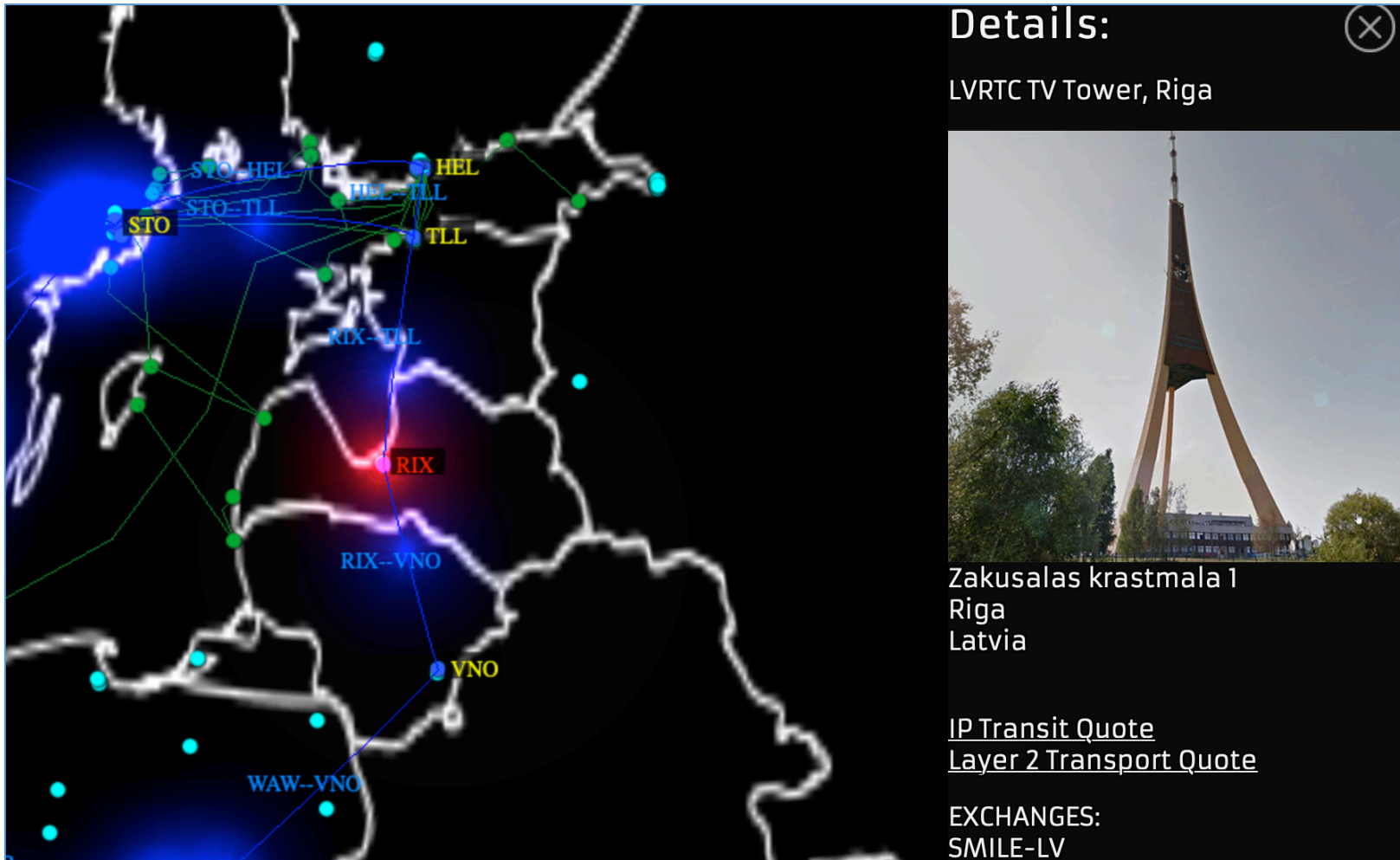


Pic. 2. [This Day Internet – many Tiers on Backbone](#)

4.3.2. Backbone level of Internet.


Read key information on site <http://he.net/3d-map/> about the Backbone level of Internet for Your Region (or Your Country, or Your City or Your Capital City) and **make Screenshots 1**.

(Also look the Tools on this resource <https://bgp.he.net>)



Details:

LVRTC TV Tower, Riga



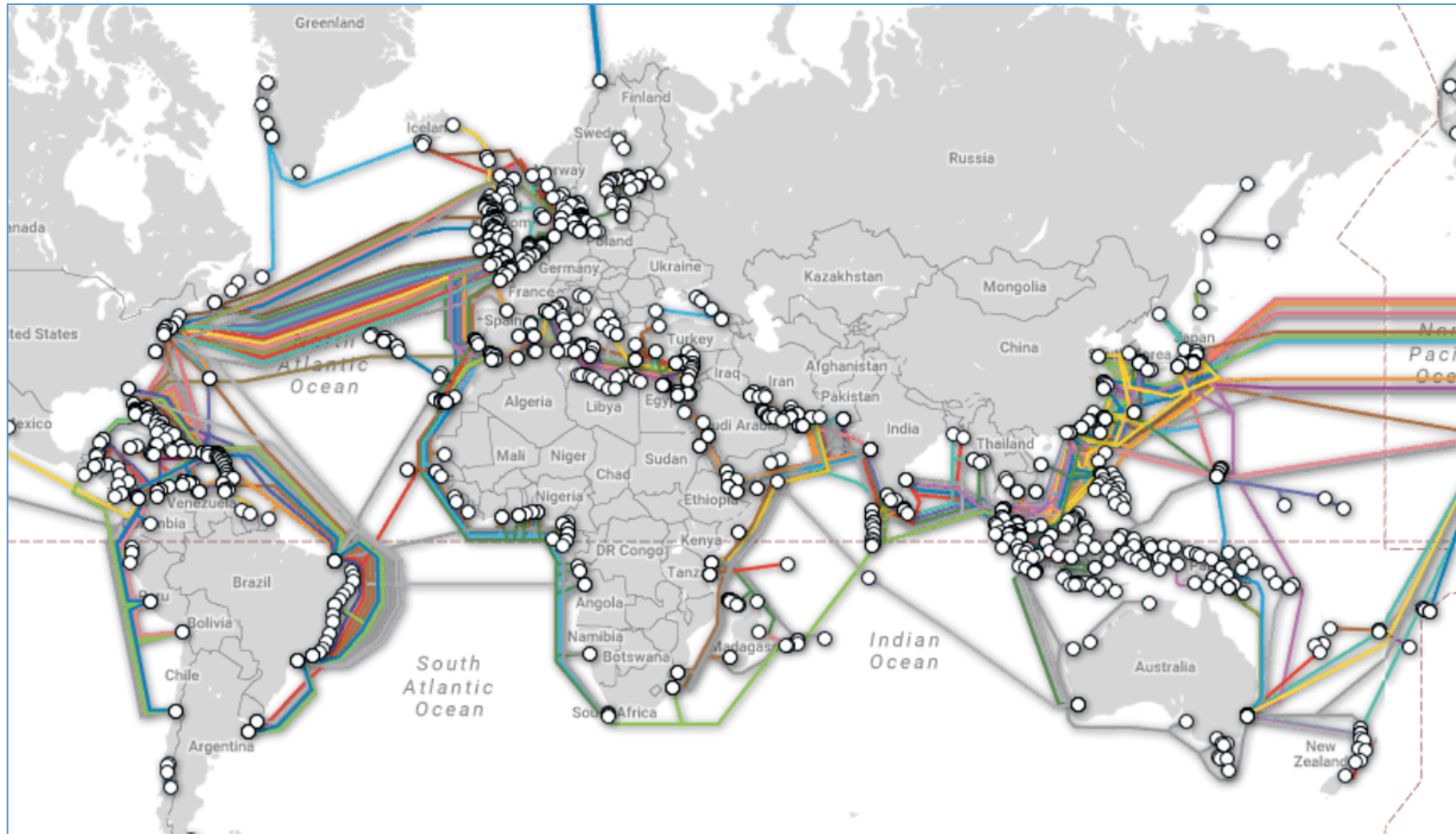
Zakusalas krastmala 1
Rīga
Latvia

[IP Transit Quote](#)
[Layer 2 Transport Quote](#)

EXCHANGES:
SMILE-LV

4.3.3. Submarine Channels of Internet.

Read key information on site <https://www.submarinecablemap.com> about the Submarine Channels of Internet for Your Region (or Your Country, or Your City or Your Capital City) and **make Screenshots 2**.



4.3.4. Data Center Certification, Standards and Compliance.

Read information about Data Center certification, standards and compliance ensure operational safety and continuity on site <https://managementmania.com/en/data-center-certification-standards-and-compliance>.

