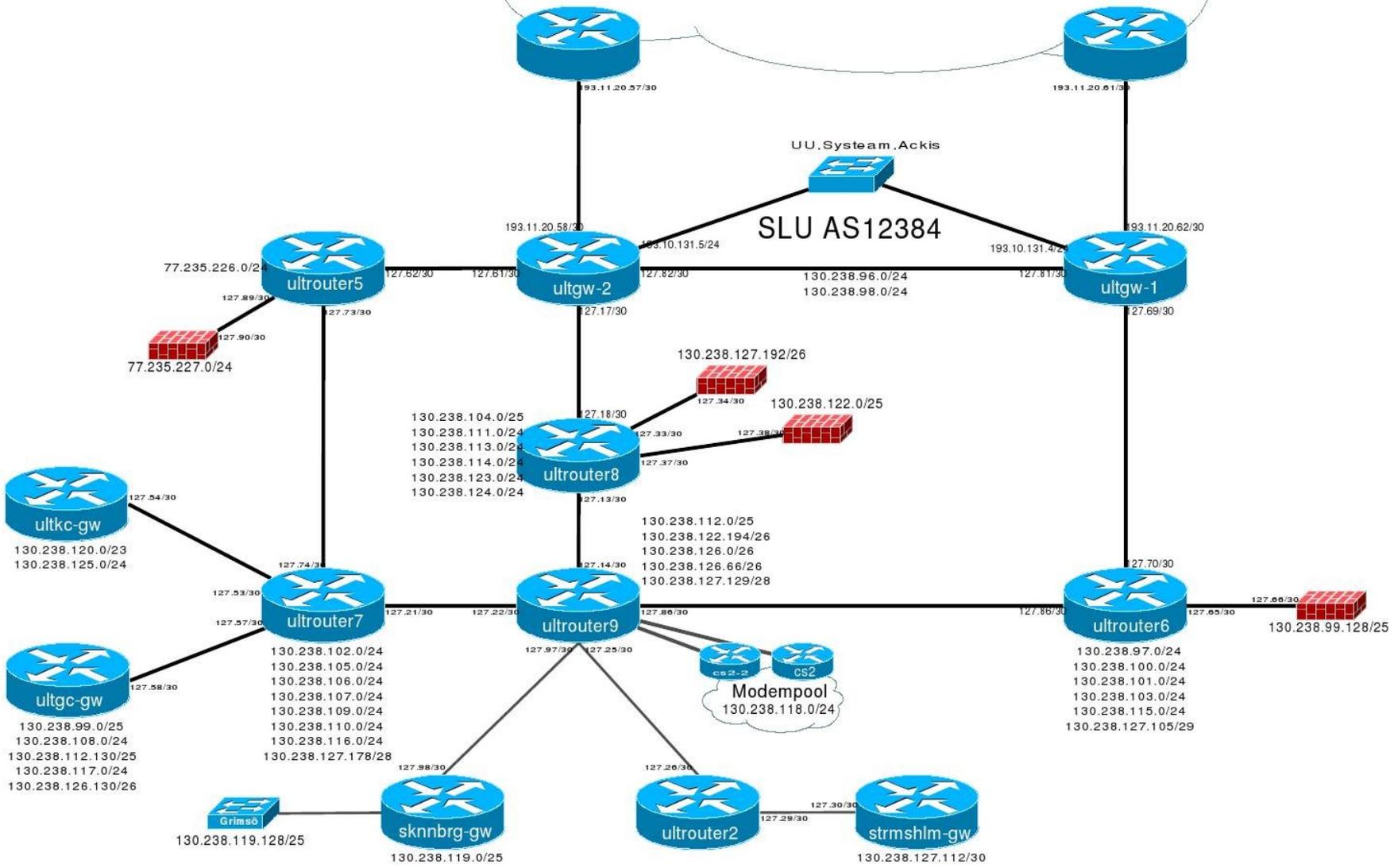
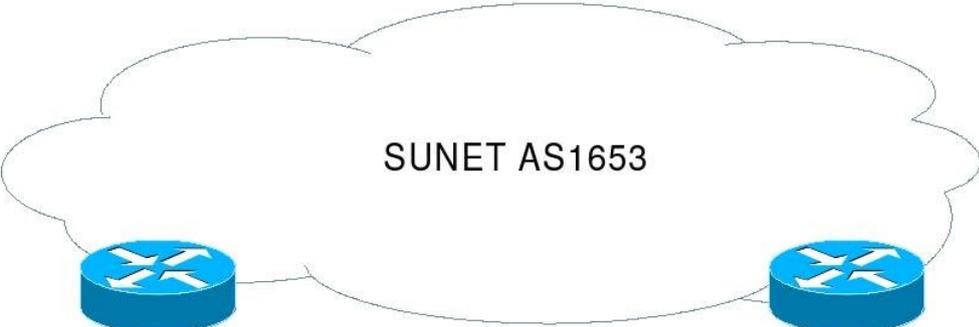


A Campus Design Example Agricultural University IP design - 2001

Supported protocols – IPV4, IPV6

Intranet – No

Internal is modeled after Internet
which scales.



Clean API

Who owns what and who is responsible

Topology

Simple, easy to maintain even in daytime, redundant if possible

Economy

Expand when there is need or a good opportunity

Standard

Design based on standards. Benefit from market competition. Avoid proprietary solutions. Make this more than words

Routing.

BGP4 peering with ISP's

OSPFV2 internal

Router discovery with servers, hosts

OSPFV3 (IPv6)

Strategi

IP-numbers, AS-numbers

Address map

LIR?

Net security

Distributed. Only few central filters

Local peering

With other University and companies.

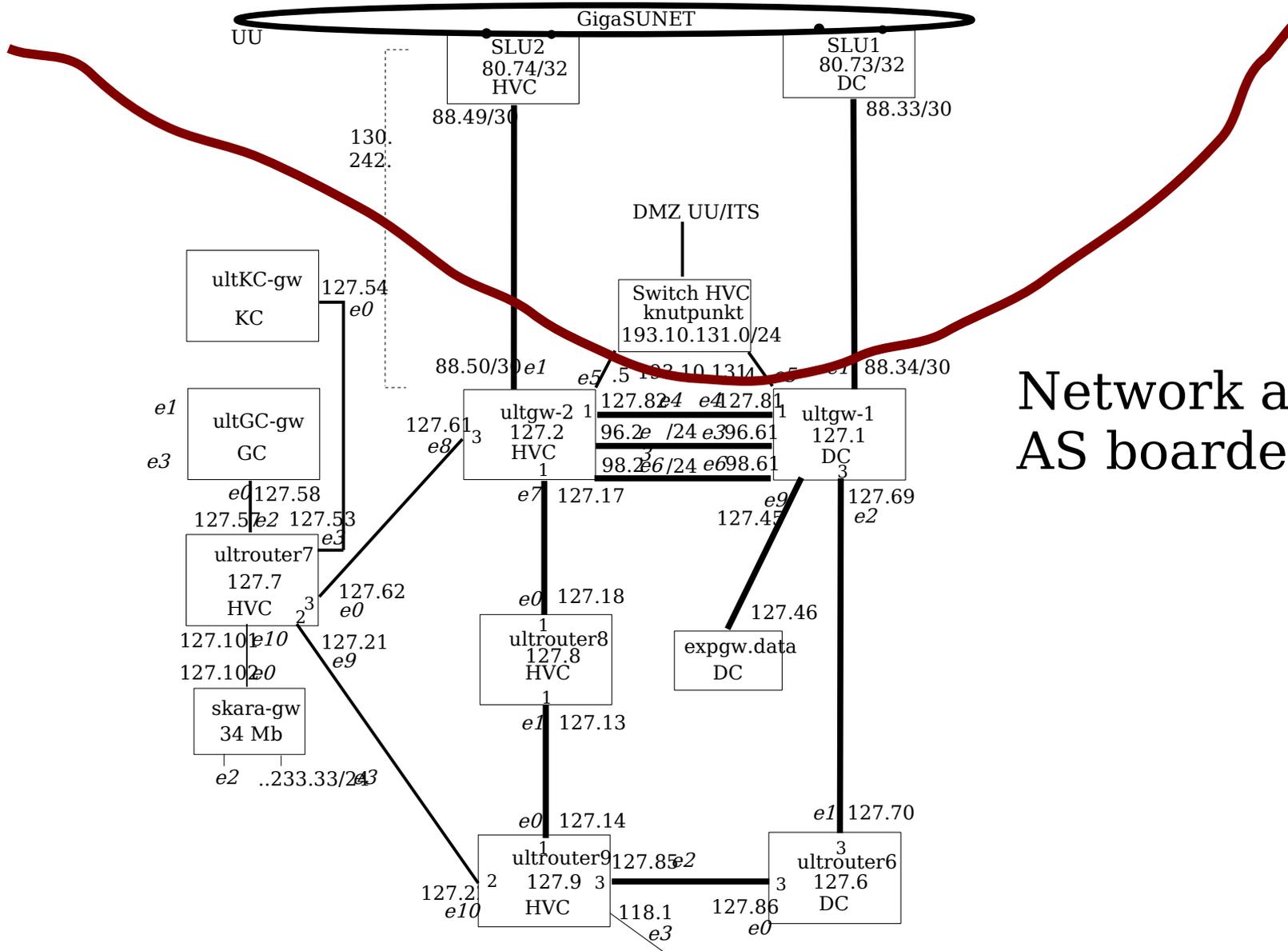
Local cooperation.

Host. Moving all towards DHCP

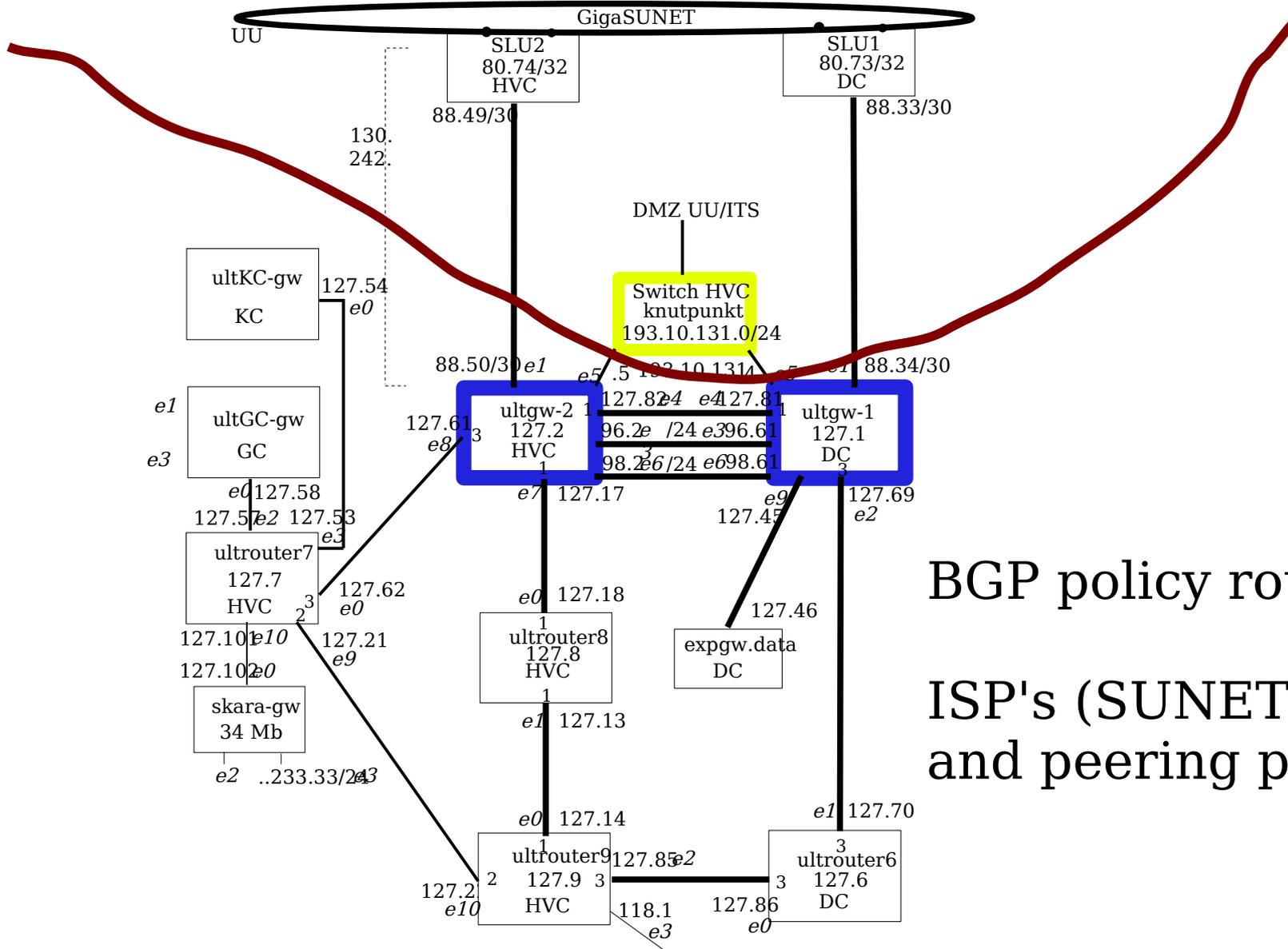
Collaboration,

Own planning, own staff is running the network

Own competence – No consultants

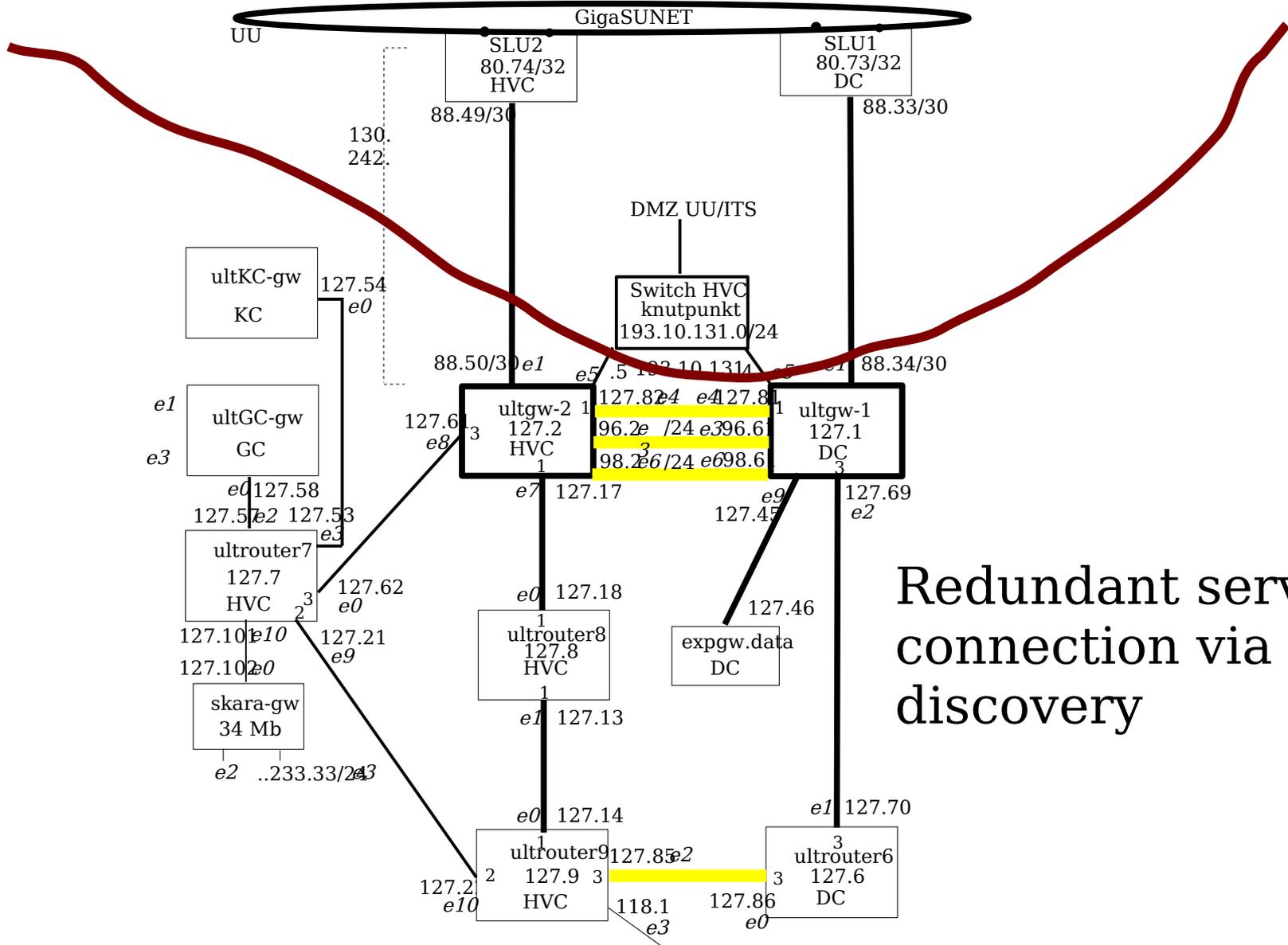


Network and AS boarder



BGP policy routing

ISP's (SUNET)
and peering point.



Redundant server connection via router discovery

Most parts are Open Source

Open-Source implementation

bifrost

quagga

Future work

WLAN architecture

User and/or distributed access-filters