

Armenian Internet Traffic Exchange Foundation

Yerevan, January 13, 2015
ISOC AM premises

armix
armenian internet exchange

The logo graphic for armix consists of a series of seven yellow-green circles of varying sizes, arranged in a curved, upward-sloping path to the right of the text.

- VivaCell-MTS
- GNC ALFA
- ARMINCO
- Web
- Ucom
- SCI
- Crossnet



ARMIX operators-acting

- Arpinet-ArmTube server
- Orange Armenia (no service provision from 01.01.2014)



- Fastnet (physically connected, no service provision yet)
- Karabakh Telecom (connected via VivaCell-MTS)



Both Aranea and Arpinet request transit connection, as they operate in the regions.



ARMIX operators-with issues

BigIron 15000

- Slots-15
 - Switching Capacity-480Gbps
 - Routed/Switched Mpps-178
 - Max port per system
- 10 Gigabit ports-14
Gigabit ports-232
10/100 ports-672



Features of equipment

Cisco Catalyst WS C3750X

- SMARTNET 24X7X2 Catalyst 3750X 24 Port Data IPBase
- Catalyst 3K-X 1G Network Modules



Features of equipment

Dell Force10 S25N

24 ports 10/100/1000 ports in a 1-RU form factor

- 20 ports 10/100/1000Base-T

- 4 ports 10/100/1000Base-T

shared with SFP ports

2 ports 10Gbit XFP ports

2 ports additionally

available for 10 Gbits



Features of equipment

- 2 sources of electricity
- Back-up UPS system
- Security System
- Solar electricity system
- DVR System
- Generator for increased redundancy
- Google Global Cache
- ArmTube (still not working properly)
- Rack space for colocation and other facilities

Current stage

- 1 Gbit port for 100,000 AMD
- 100 Mbit port for 10,000 AMD (proposed to be changed to 20,000 AMD)
- One connection to 7 providers
- Cost Leverage
- Secure and back up connection
- Advocacy of Telecom Sector along with UITE and ISOC AM
- Google Global Cache
- Know-how exchange initiatives, participation in international events

Benefits

- EURO-IX meetings in Helsinki, Finland; Leeds, UK; Bucharest, Romania
- Call for participation disseminated among ARMIX members, ARMIX represented by the delegates from GNC ALFA, WEB, Arpinet and Director of ARMIX.
- GITI 2014 (Tbilisi, Georgia) participation and co-organization of Armenian delegation.

Events participated

- Delegated by ISOC Armenia to ARMIX and ARPINET to co-host the event
- Followed by 5 days training. Topic to be chosen from:
 - Virtualization
 - Network management & monitoring
 - Wireless deployment
 - DNS/DNSSEC
 - IPv6/BGP

RIPE NCC, September 15-16, 2015

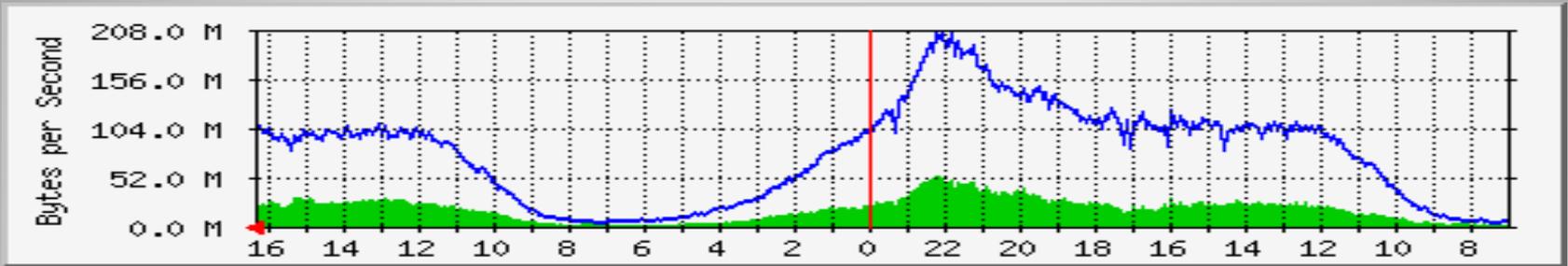
- EURO-IX meeting in Armenia (April 24-26, 2016 or November 6-8, 2016)
- Over 100 attendees from 60 organizations
- Participants from UK, Netherlands, France, Romania, Belgium, Brazil, Bulgaria, Canada, Czech Republic, Croatia, Denmark, Finland, Germany, Greece, Ireland, Israel, Italy, Japan, Norway, Poland, Russia, Spain, Sweden, Switzerland, Tunisia, USA, South Africa and other countries

To be applied for

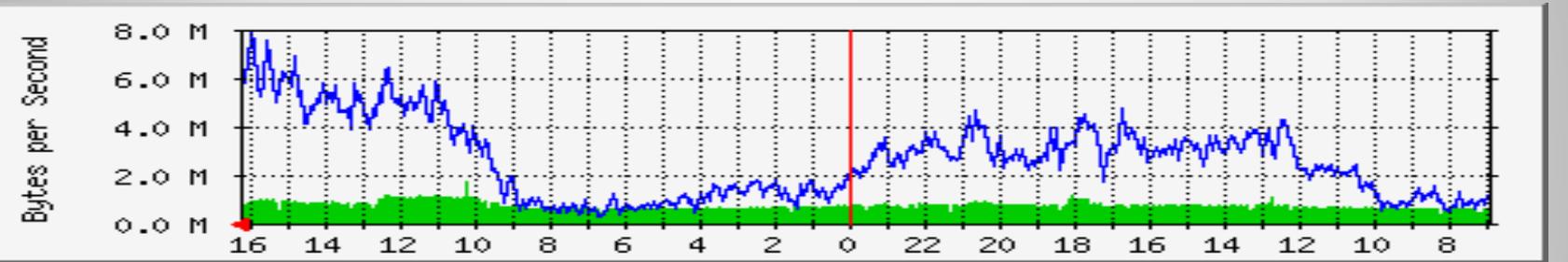
- CEBIT 2015 (Hanover, Germany, 16-20 March 2015). Emphasize on Communication & Network and Datacenter Dynamics tracs
- EURO-IX meeting (Marseilles, France, 12-14 April, 2015)
- ENOG 2015 (Kazan, Russia, 9-10 June, 2015)
- EURO-IX meeting (Berlin, October, 2015)
- GITI 2015, Tbilisi, Georgia

To arrange the participation

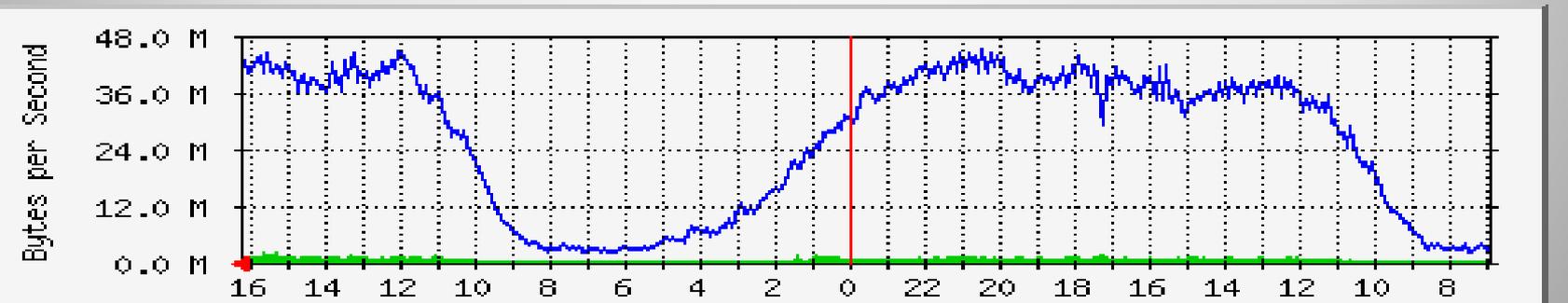
GNC Alfa



CrossNet

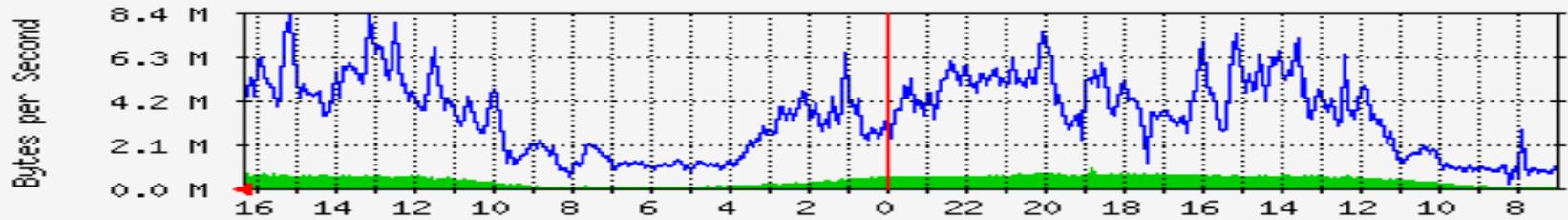


WEB

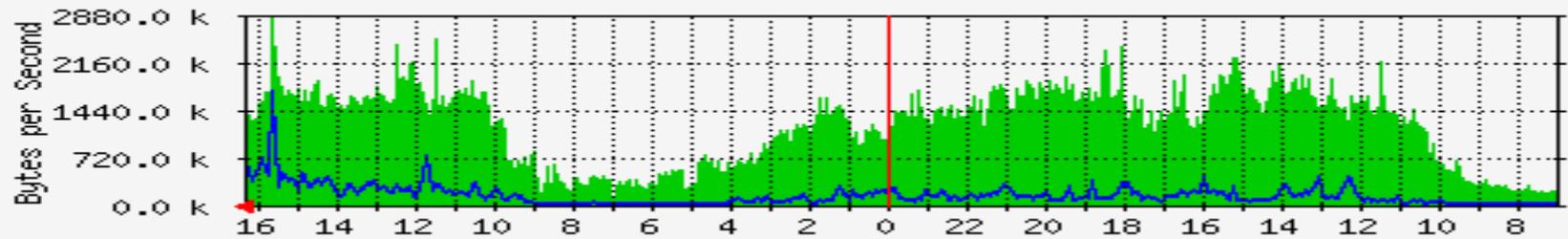


Traffic flow

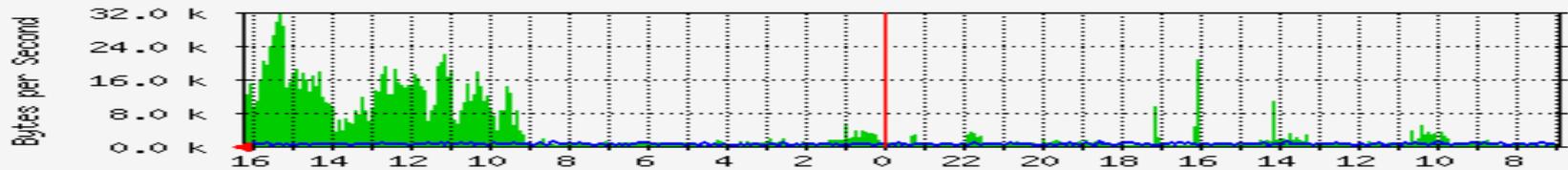
Ucom



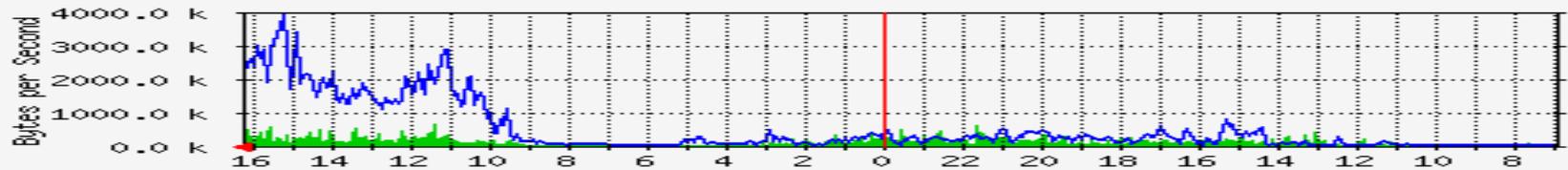
VivaCell-MTS



Arminco

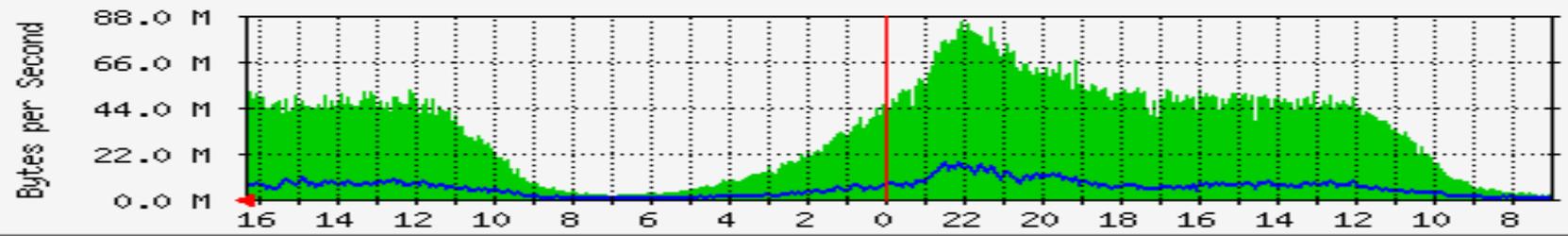


SCI

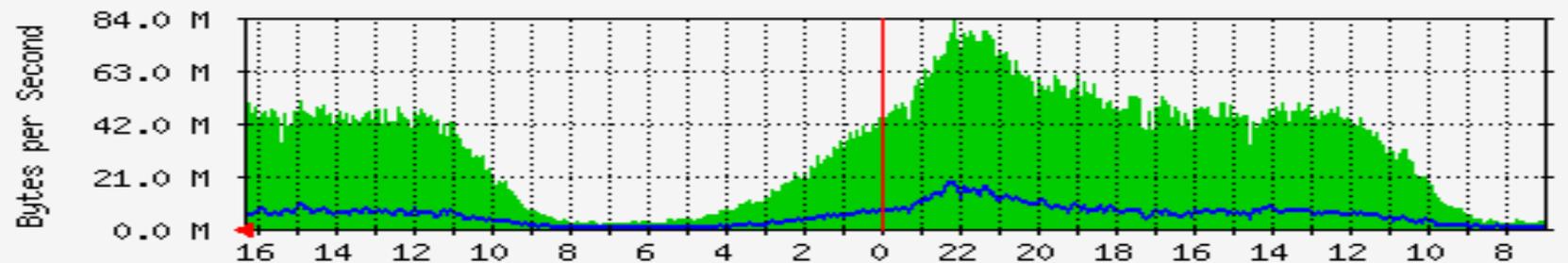


Traffic flow

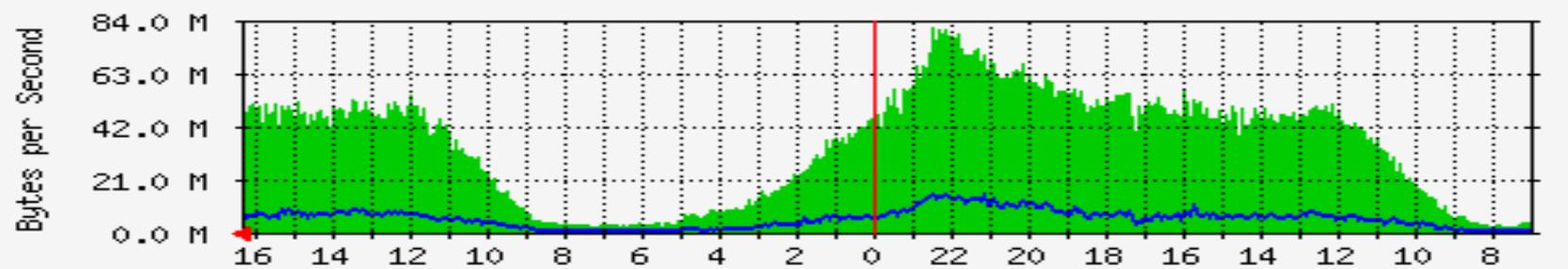
Channel 1



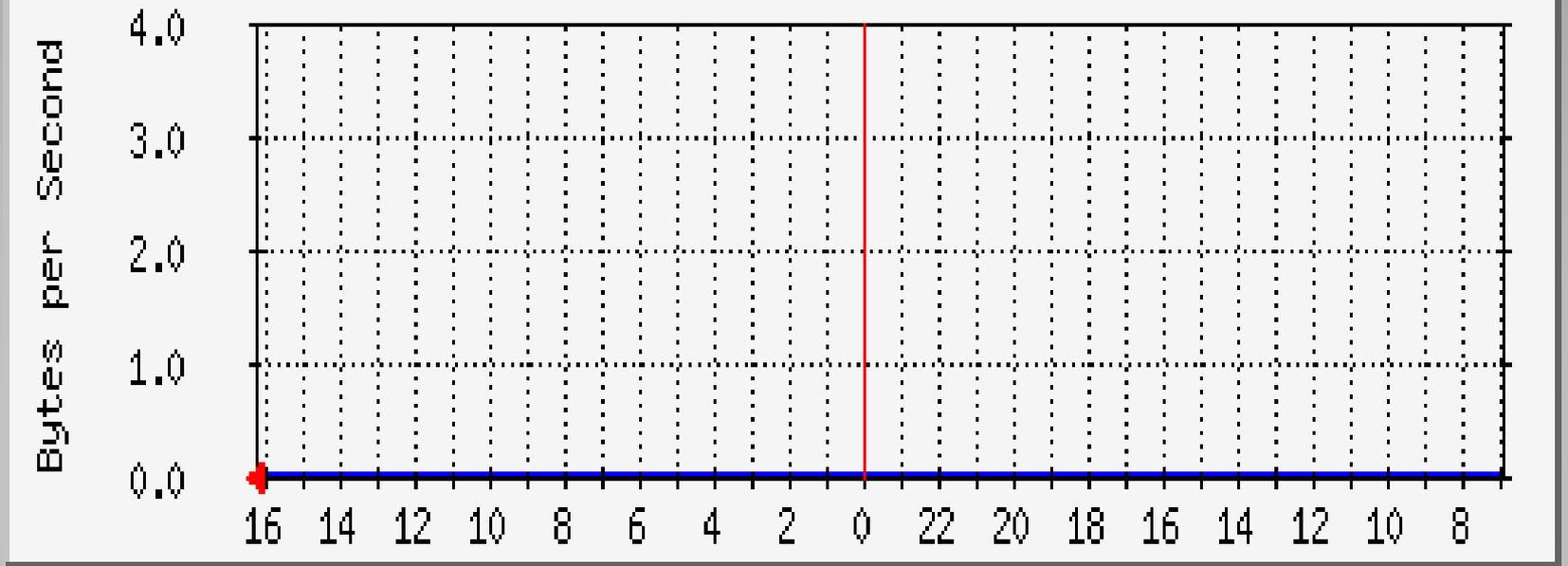
Channel 2



Channel 3



Traffic flow-Google Global Cache



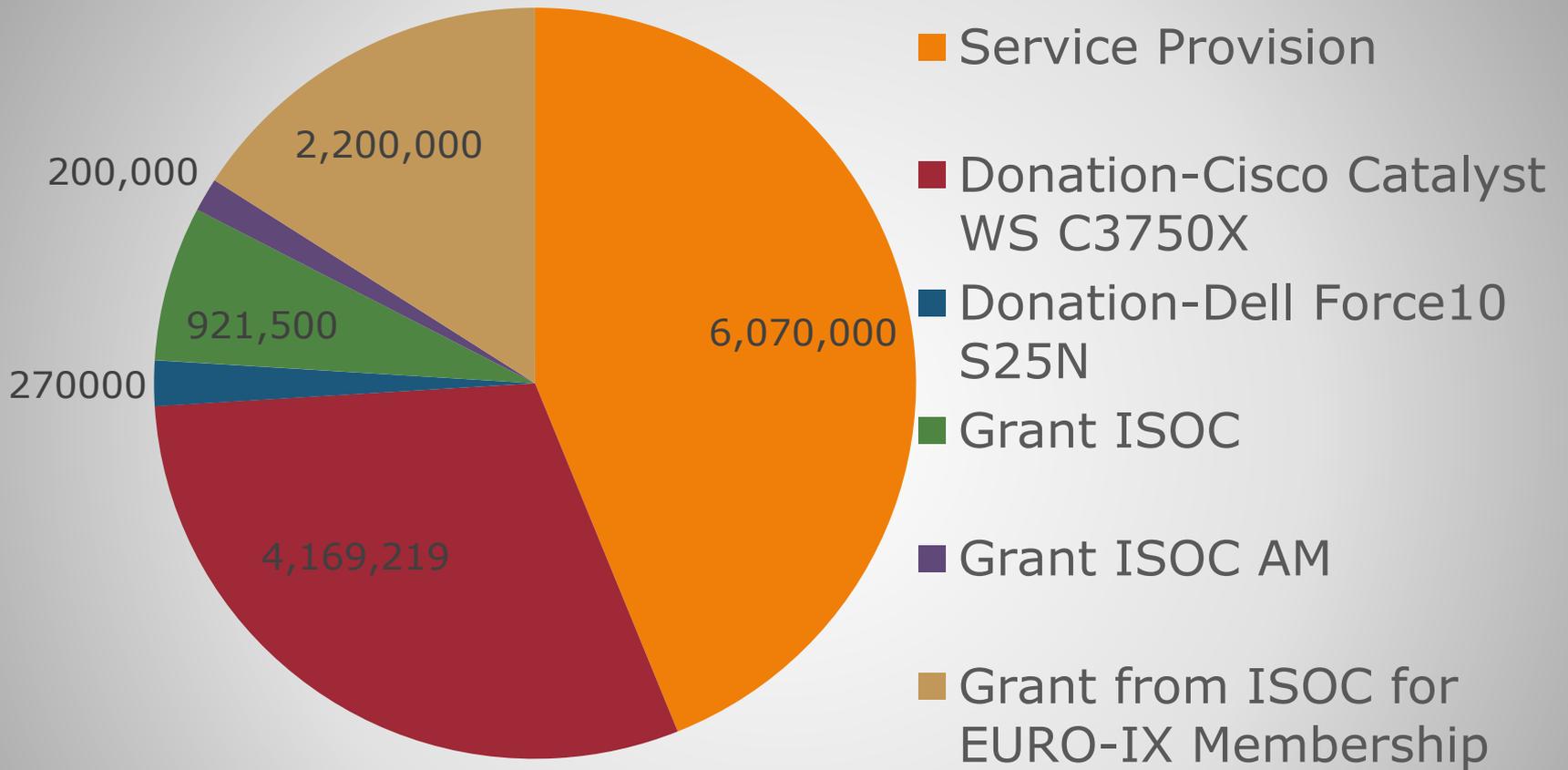
Link to all flows

<http://argus.web.am/mrtg1/>

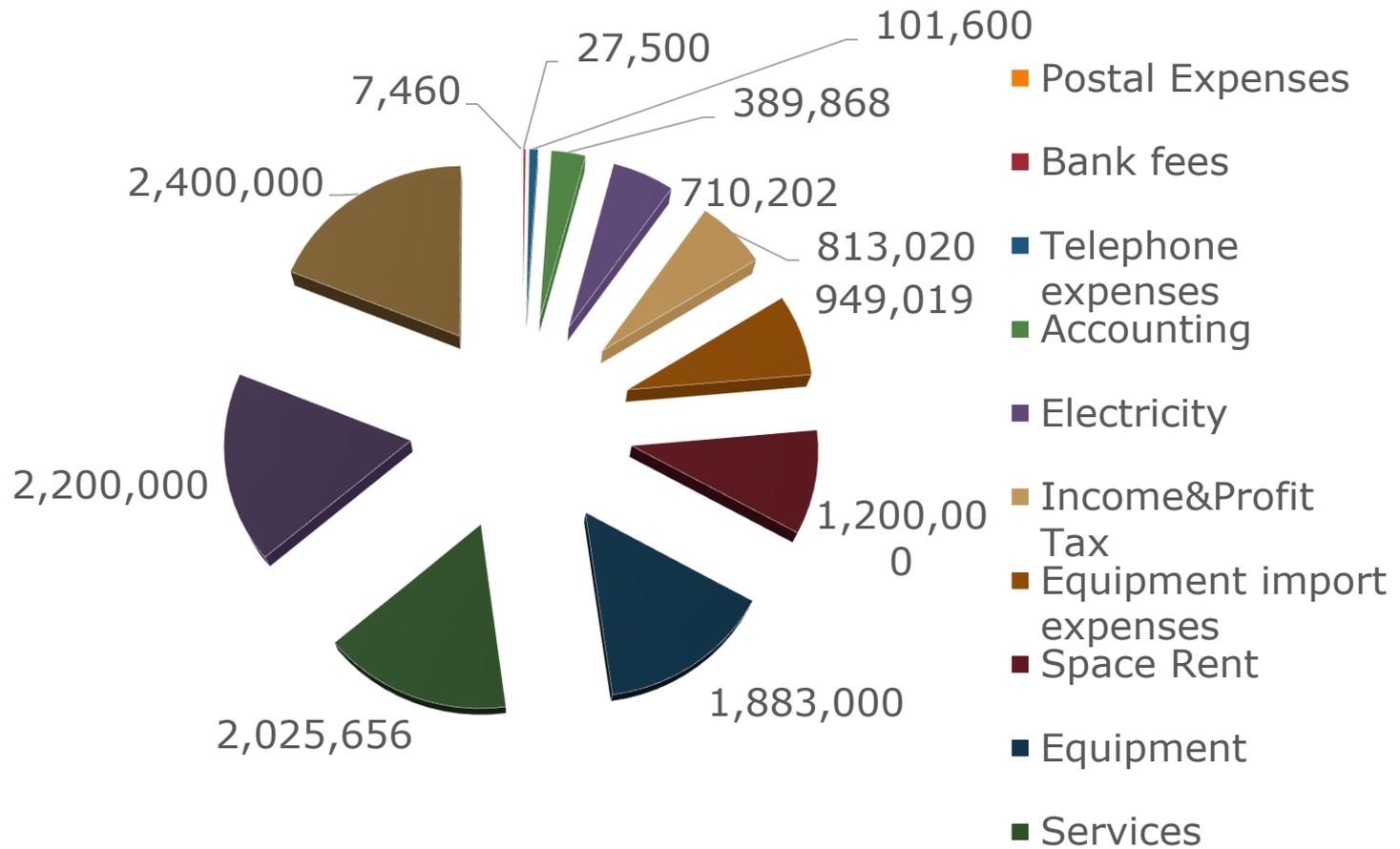
Traffic flow-ArmTube

- Number of parties connected to ARMIX by the end of 2015-11
- Local internet traffic promotion activities and initiatives
- Added Value Services
- Advocacy Initiatives
- System Administration and Monitoring
- Web monitoring tools and instruments
- Know-how sharing, boosting international cooperation and promoting Armenia as a country with highly developed telecommunication industry and destination for investments

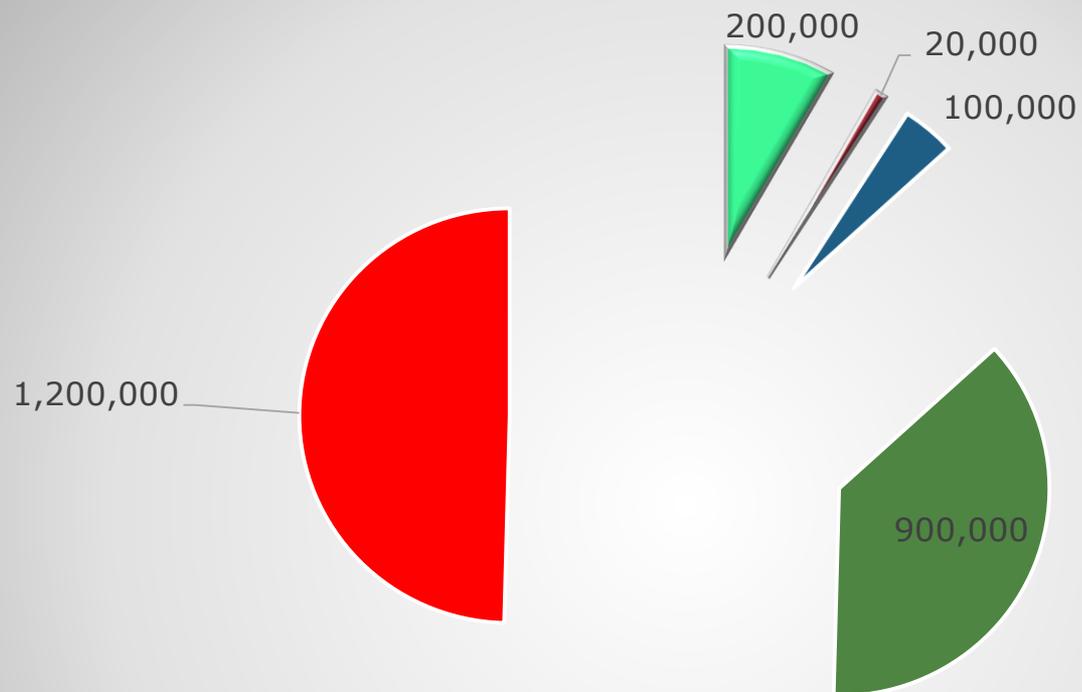
Future Development-2015-2016



Income 2014-13,830,719 AMD

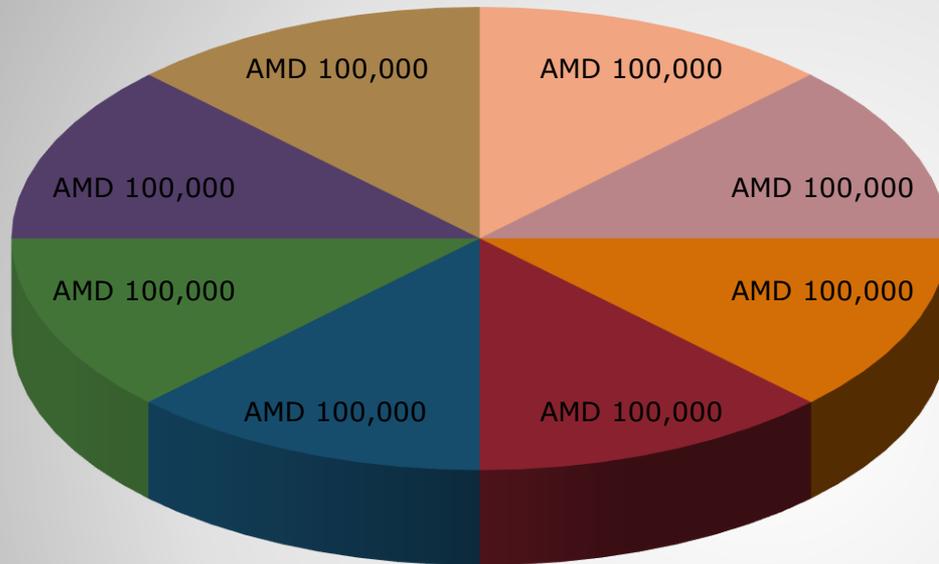


Expenditure 2014-12,707,325



■ Ucom
 ■ Cross
 ■ VivaCell-MTS
 ■ GNC Alfa
 ■ Arminco

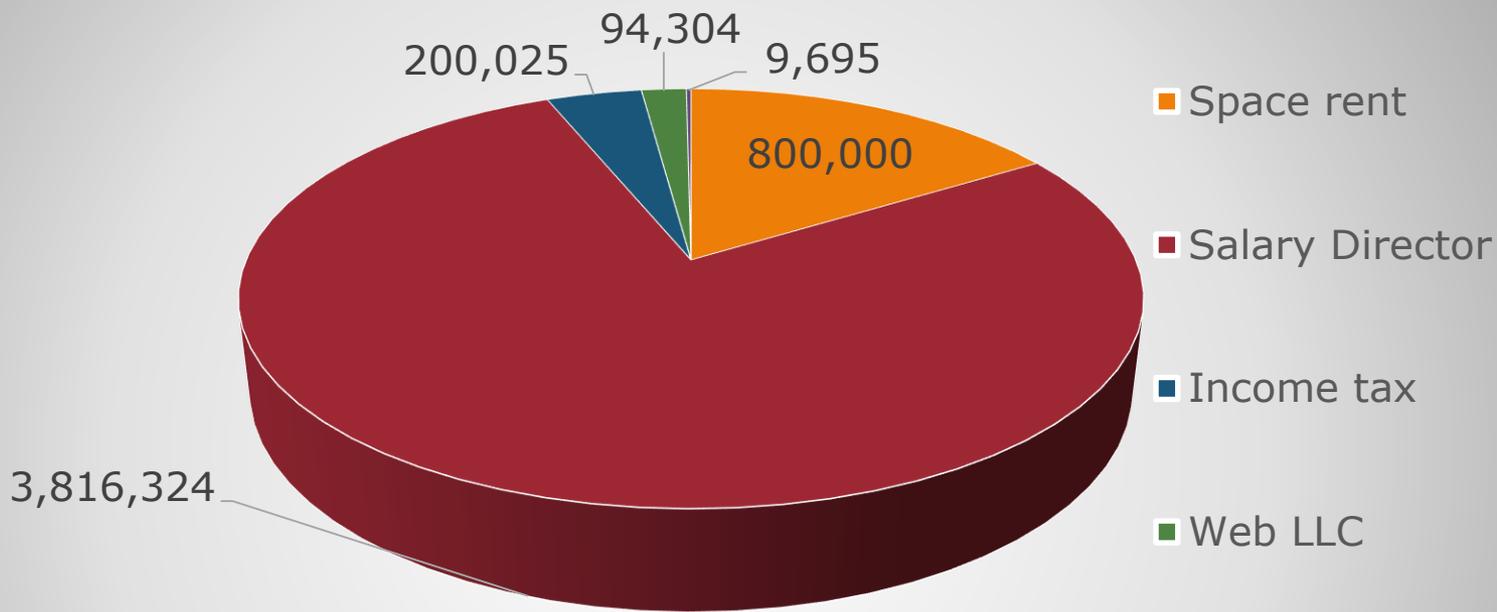
Debts to ARMIX-2,420,000



- GNC Alfa
- Arminco
- Web
- Orange Armenia
- Apaga Technologies
- Ucom
- VivaCell-MTS
- Icon Communications

800,000 AMD

Forecasted Income-June, 2011



ARMIX debts 4,920,348