



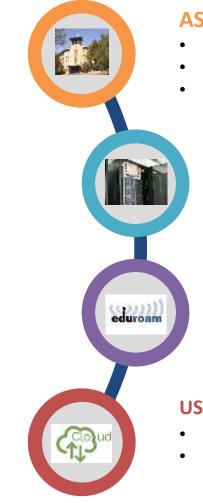




Data, Computing and Network Research Infrastructures and Services in Armenia

Hrachya Astsatryan, ASNET-AM (Academic Scientific Research Network of Armenia) Institute for Informatics and Automation Problems of NAS RA

Outline



ASNET-AM

- Brief information
- Mission
 - Vision

E-INFRASTRUCTURES

- Mission
- Vision
- Future

DIGITAL SERVICES

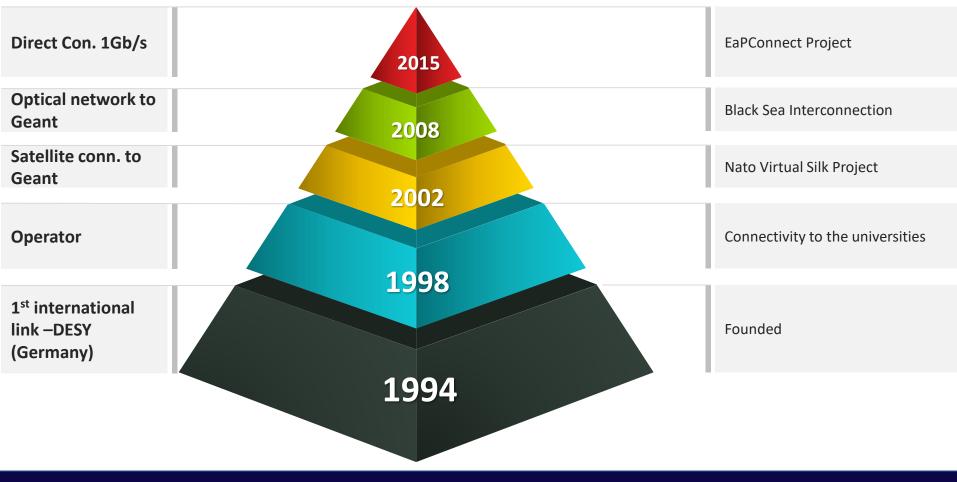
- Network
- Data
- Computing

USE CASES

- Life Science
- Earth Science

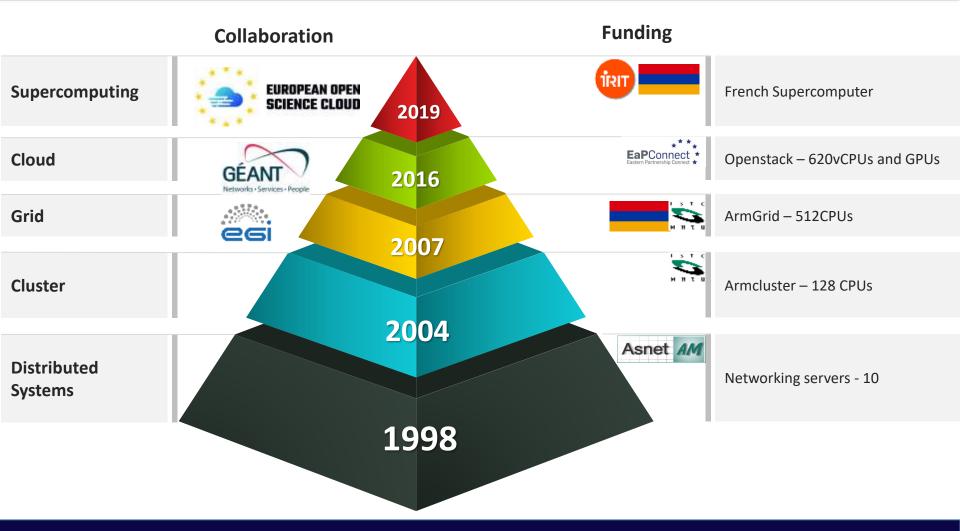


ASNET-AM – networking infrastructure



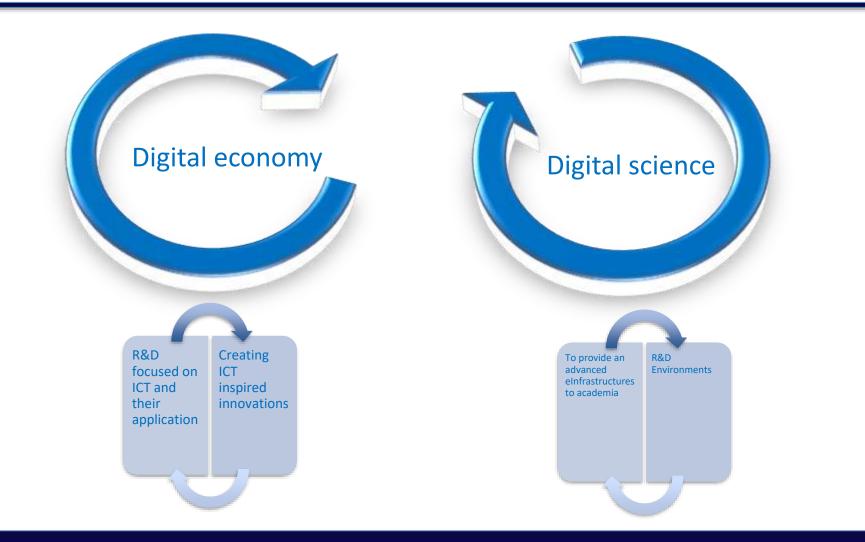


ASNET-AM Computational infrastructure





e-Infrastructure – mission



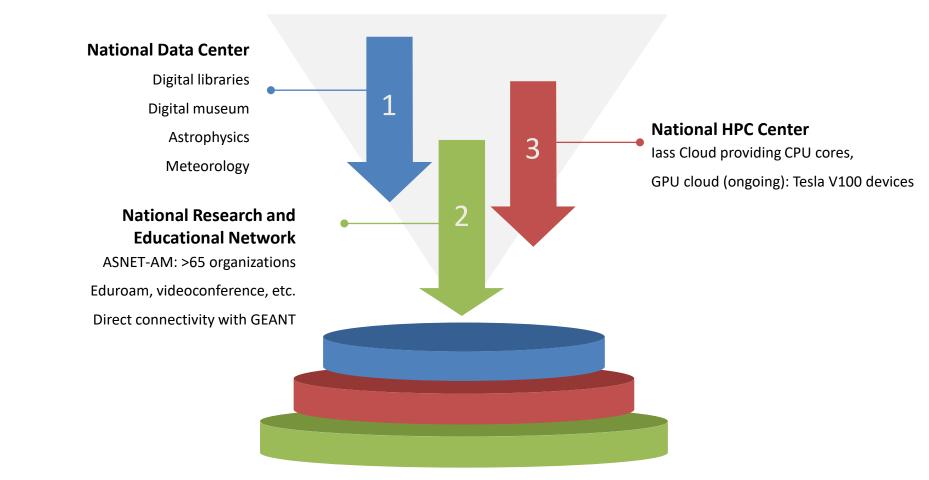


e-Infrastructure – vision





e-Infrastructure – at a glance



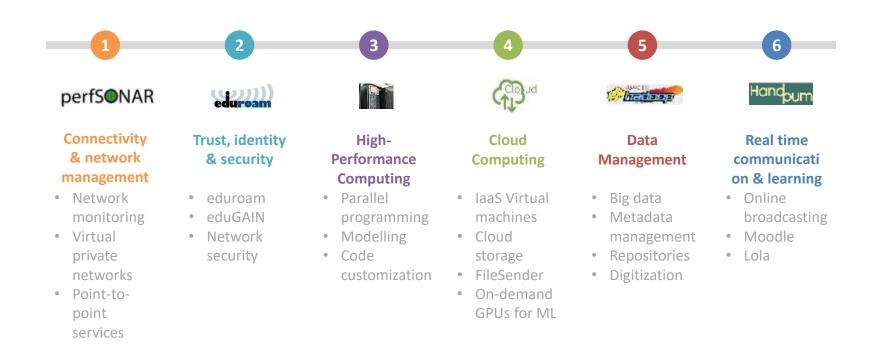


e-Infrastructure – future





Digital services – overview



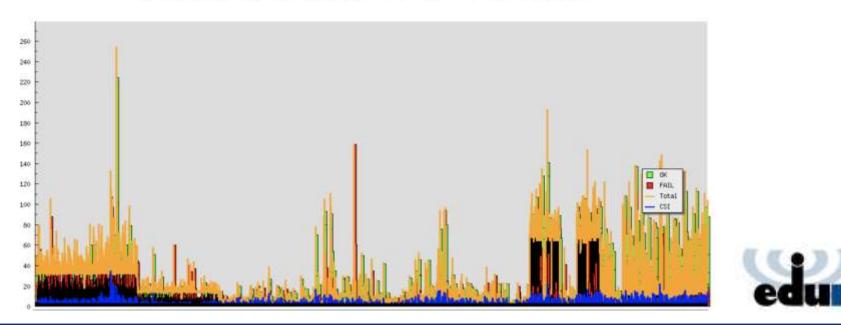


Digital services – networking

eduroam (education roaming) is the secure, world-wide roaming access service developed for the international research and education community.

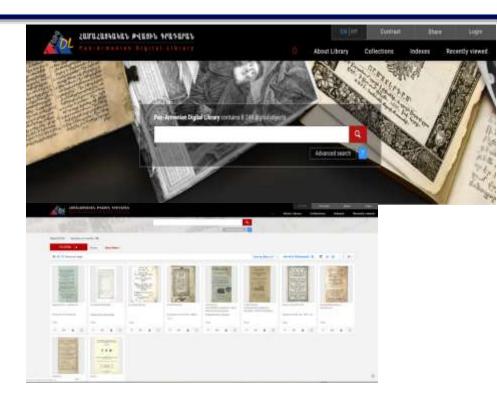
eduroam allows students, researchers and staff from participating institutions to obtain Internet connectivity across campus and when visiting other Accumulated requests statistic for country am

from 2017-01-01 18:31:00 to 2019-09-02 18:31:00





Digital services – digital libraries online



dLibra enables creating professional repositories of digital documents and sharing them with other people and systems on the Internet.

We are moving to the new platform based on dLibra system.

The new portal offers the users many powerful possibilities such as **searching the content** of the collected resources, searching bibliographic descriptions using **synonyms** dictionary, **grouping** digital publications and navigating their **structure**.

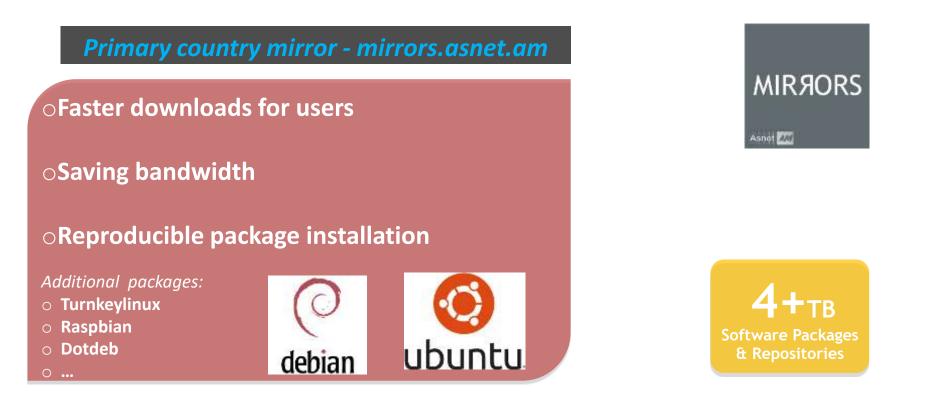








Digital services – data repository



Archive Mirror at the Academic Scientific Research Computer Network of Armenia (ASNET-AM)



Digital services – streaming

A Low Latency, High Quality Audio/Video Transmission System (Lola) for Network Musical Performances and Interaction

Estonian Academy of Music and Theatre

CAPPELLA MARCIANA - VENICE



Fondazione Università Ca' Foscari. Cà Dolfin



HOVER STATE CHAMBER CHOIR - YEREVAN



National Academy of Sciences of Armenia



Digital services – computing



HOME SERVICES DOCUMENTATION SIGN UP SIGN IN

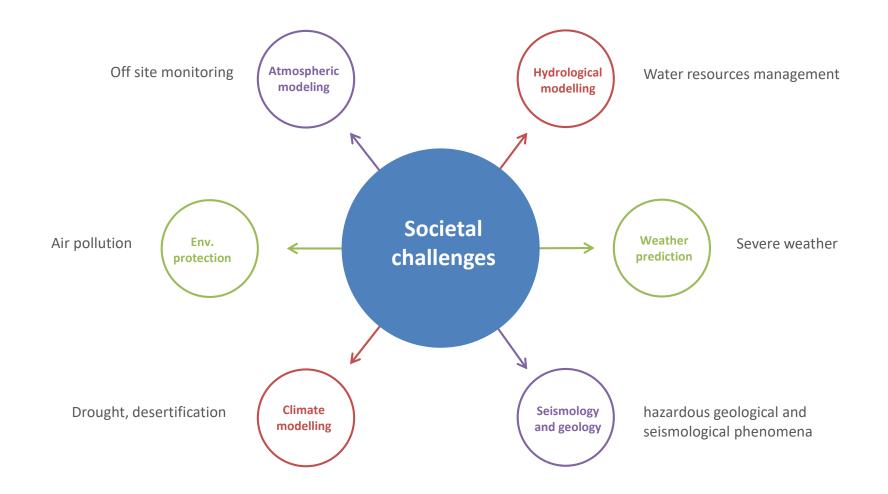
Welcome To ASNET Cloud Services

Cloud is about how you do computing, not where you do computing. Paul Maritz CEO of VMware

- Users dynamically choose a CPU, memory and storage configuration
- Easy access to vast computing power (520 virtual CPUs)
- Freely available open source infrastructure based on OpenStack software



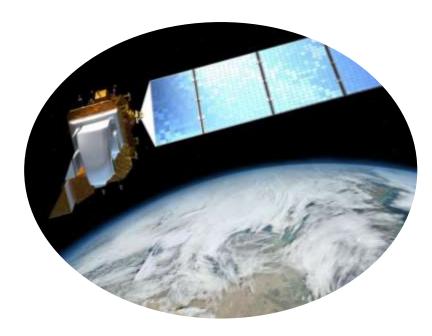
Use cases - societal challenges





Use cases - societal challenges





Supporting weather 'nowcasting' to prevent damage in Armenia

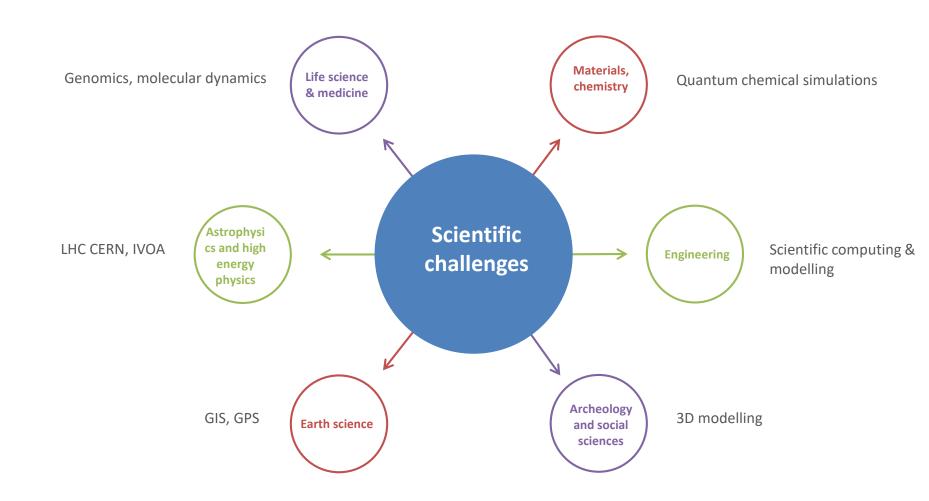
Monitoring the environment with Earth observation in Armenia

Armenian State Hydrometeorological and Monitoring Service

http://datacube.sci.am

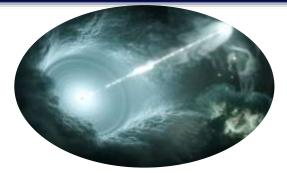


Use cases - scientific challenges



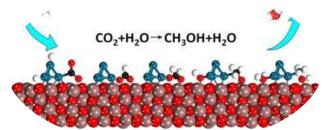


Use cases - scientific challenges



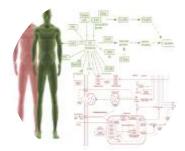
Supporting the multiwavelength monitoring of the bright Blazars

International Centre for Relativistic Astrophysics



Pd₄/In₂O₃ Enabling computational materials discovery and atomic scale simulations

Faculty of Radiophysics, Yerevan State University



Empowering the Armenian Genome Project with HPC resources

http://armeniangenome.am



Enabling laser physics and quantum computing simulations

Institute for Physical Research of NAS RA





