Federal University of Uberlândia

Faculty of Computing

MEHAR Group

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Theory defines what can be observed !

Agenda

- Intro

- MEHAR at a glance

- Projects

- Participants

- IP

- Infrastructure

- Questions

Intro: Meeting Goals

- Present a group overview
  - Some history
  - Infrastructure
  - Repositories
  - Site
- Call to our responsibility with the homeland
  - Philosophical aspects
  - Regulations
  - IP

MEHAR Vision

- Research Focus
  - Considering the society challenges and needs for … Future Applications
  - Which poses new requirements to … Future Networks
  - Which will run on top of … Future Infrastructure

- Experimental Approach
  - Applied research close to the real world
  - Strengthens the Education of Human Resources
  - From prototypes to products (open for innovation)

Intro: History

- Telecom
  - SIPAC Projetc – 1998/2001
    - SPC (Stored Program Control)
    - SIPAC Project – 1998 – An integrated system for the programming and automation of SPC services:
      - Different vendor have different SPC languages
      - Different SPCs have different names for the same service
      - The goal of the project is to create a meta-language which enable the programming of different SPCs to a mouse click.
  - IN
  - NGN
  - SIP-BR
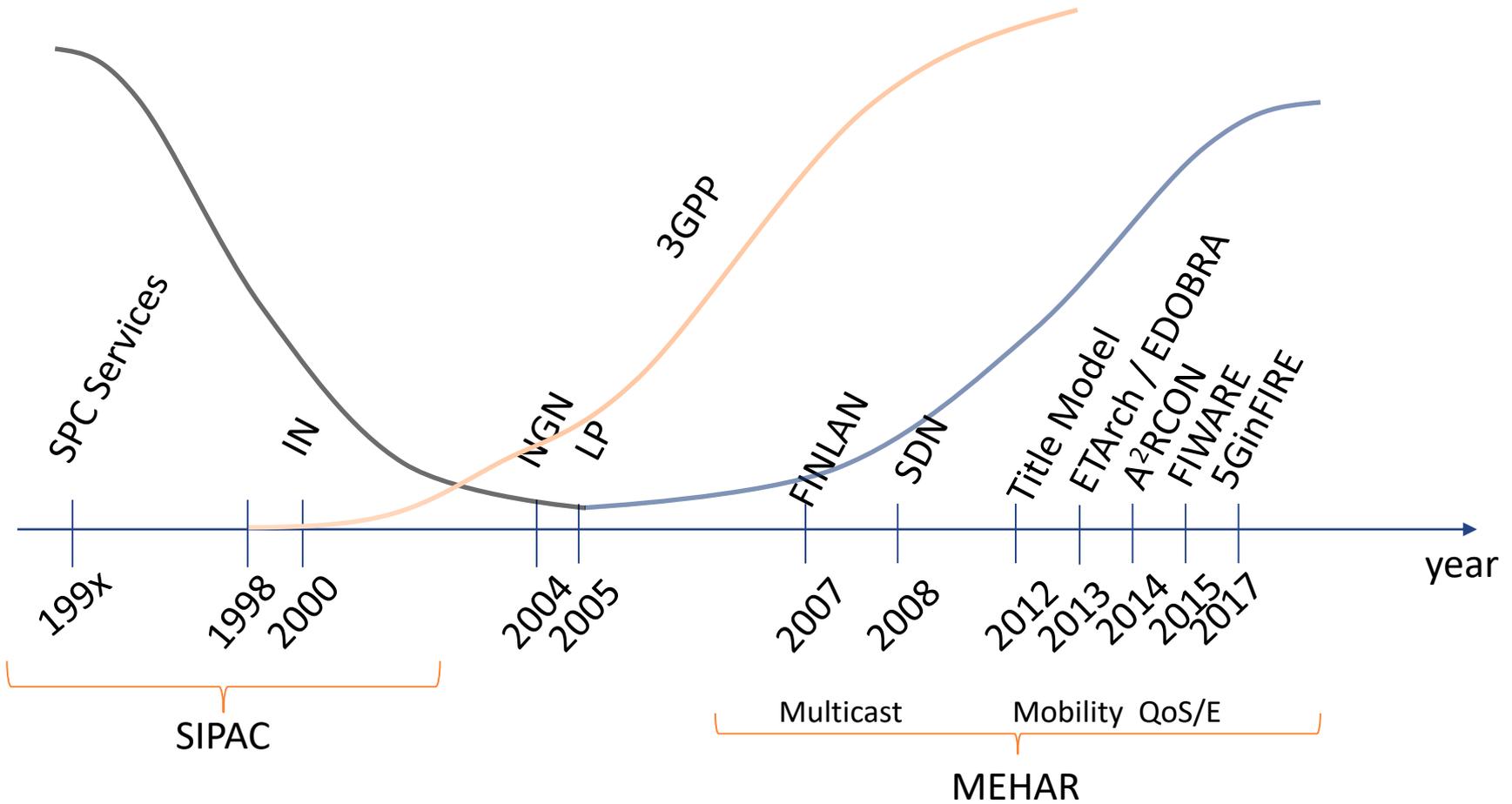- The Little Protocol - 2005

MEHAR at a Glance

- Little Protocol: 2005
- FINLAN: 2007
- First Best Paper Award: 2009
- SDN: 2010
- MyFire Contest: 2011
- Title Model: 2012
- ETArch: 2013
- EDOBRA: 2013
- A^2RCON: 2014
- FI-Guardian: 2015

- FI-Guardian.v2: 2017
- 5GinFIRE: 2017
- FIXP: 2017
- TIED 4.0: 2018
- Brasil 5G: 2018
- AgroConnect: 2019
- Manufatura Aditiva: 2019

MaG: Future Internet

Research, Funding and Industry Partners

- Instituto de Telecomunicações Aveiro (Portugal)
- Polytechnic School, University of São Paulo
- Federal University of Rio Grande do Norte (UFRN)
- RNP (Brazilian NREN)
- University of Bristol
- OFELIA
- FIBRE
- FIWARE

☐ FP7
☐ CAPES
☐ CNPq
☐ FAPEMIG

☐ DATACOM
☐ ALGAR TELECOM

About Intellectual Properties

- Most of our research is "donated" to foreign competitors
  - What about envisage effort on IP before publishing?
- No strategic applied research/development is being developed at our house
  - Many countries does not acquire strategic goods elsewhere than home developed!
- A good balance is around 25% basic research and 75% applied research

Do it your way!

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