

Madrid, Spain, October 07, 2015

HyperAdapt project launched to improve mobile Internet traffic

IMDEA Networks Institute announces the launch of the project [HyperAdapt](#). The overall objective of this research initiative is to improve traffic flow in the mobile Internet in response to increasing private and industrial demand.

HyperAdapt, which stands for Modeling and Online Performance Optimization of Adaptive Networks, aims at taking Software Defined Networks (SDN) to the next level, by exploring the possibilities of making the Internet scalable, manageable and adaptable from an industrial perspective. Solutions in this field may help industries face future scenarios of increased use of wireless Internet: operators will be able to put into effect network applications that increase flexibility and control over current deployments.

The IMDEA Networks researchers, led by [Antonio Fernández Anta](#), will explore and seek to identify extensions worth adding to OpenFlow or any other SDN system. OpenFlow is a relatively new method applied to control network flows. Here it is important to underline that the HyperAdapt research project considers much richer SDN models than those currently offered by OpenFlow, i.e. the controller in the HyperAdapt models has essentially complete information of the state of all network elements, and has full control to change them.

To reach the above mentioned objectives, HyperAdapt will tackle two of the cornerstones in the mobile internet architecture leading us to faster and more powerful mobile networks: intra-domain routing and wireless access solutions.

HyperAdapt is funded by the [Spanish Ministry of Economy and Competitiveness](#) (Ministerio de Economía y Competitividad). It will operate during 2015 and 2016.

Source(s): IMDEA Networks Institute

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Traducción al español:

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Original source:

[/news/2015/hyperadapt-project-launched-improve-mobile-internet-traffic](#)

About Us

IMDEA Networks Institute is a **research organization on computer and communication networks** whose multinational team is engaged in cutting-edge fundamental science and technology. As a growing, English-speaking institute located in Madrid, Spain, IMDEA Networks offers a unique opportunity for pioneering scientists to develop their ideas. IMDEA Networks has established itself internationally at the forefront in the **development of future network principles and technologies**. Our **team** of highly-reputed researchers is designing and creating today the networks of tomorrow.

***Some keywords that define us:** 5G, Big Data, blockchains and distributed ledgers, cloud computing, content-delivery networks, data analytics, energy-efficient networks, fog and edge computing, indoor positioning, Internet of Things (IoT), machine learning, millimeter-wave communication, mobile computing, network economics, network measurements, network security, networked systems, network protocols and algorithms, network virtualization (software defined networks – SDN and network function virtualization – NFV), privacy, social networks, underwater networks, vehicular networks, wireless networks and more...*

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