Title:	FIT/CorteXlab	Space for laboratory logotype Resolution: 400 × 125		
Responsible person:	Tanguy Risset			
Institution:	Inria (France)			
Short description:				
Contact (email):	tanguy.risset@insa-lyon.fr_			
Website (if any):	http://www.cortexlab.fr/			
Equipment:	Large facility in a 200 m² room, entirely faradised and covered with EM, absorbers, equipped with 22 USRPs (National Instruments), 16 PicoSDRs, (MIMO 2x2 and 4x4, from Nutaq) and 42 WSN nodes (Hikob). All these equipments are remotely accessible and programmable through the Internet to launch experimentations. The frequency range spans form 400 MHz up to 4 GHz.			
Aims:	The main objective of this facility is to offer a large set of Software Defined Radio (SDR) systems in a controlled environment. This testbed is dedicated to be open to the scientific community, free of charge. As everything is programmable on a wide set of frequencies, this testbed is a unique facility to test the behavior of any kind of wireless network at a large scale, form PHY layer to MAC layer. Scenarios of Cognitive radio systems, 5G, cooperative communications or IoT could be tested.			
Availability:	Is it remotely accessibile? Yes Is it available on the site? Yes but remote access is preferable Is it for free? Yes			
Annex:				

## Place in IRACON RESEARCH MATRIX

	EWG-IoT	EWG-LT	EWG-RA
Working group	x		

	Antennas and Propagation	PHY	MAC	NET
eHealth	X	X	X	х
Factory of the Future	X	х	X	х
<b>Connected Cars</b>				
<b>Energy Management</b>	X	X	X	х