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An Academic's Perspective on 6G Research

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Universitat Pompeu Fabra (UPF)

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With the 6th generation of wireless networks on the horizon, the time is right to reflect on what has been accomplished, on challenges old and new, on the research tools at our disposal, and on the evolution of wireless communications at large. This lecture intends to contribute to this reflection, not from the perspective of a manufacturer, operator, or user, but from the perspective of a researcher. With this perspective, the presentation is organized around various ideas that relate to 6G, but that also have broader conceptual implications.

Bio: Angel Lozano is a Professor at Universitat Pompeu Fabra (UPF) in Barcelona, Spain. Prof. Lozano received a Ph.D. in Electrical Engineering from Stanford University, USA, in 1998. In 1999, he joined Bell Labs (Lucent Technologies, now Nokia) in Holmdel, USA, where he was a member of the Wireless Communications Research Department until 2008. Between 2005 and 2008 he was also an Adjunct Associate Professor of Electrical Engineering at Columbia University, USA. Prof. Lozano is a Fellow of the IEEE since 2014. He served as area editor for the IEEE Transactions on Wireless Communications (2017-2022) and as associate editor for the IEEE Transactions on Information Theory (2011-2014), the IEEE Transactions on Communications (1999-2009), the Journal of Communications & Networks (2010-2012), and the ComSoc Technology News (2018-2022). He has guest-edited various journal special issues and is actively involved in committees and conference organization tasks for the IEEE; in particular, he was the Chair of the IEEE Communication Theory Technical Committee (2013-2014) and was elected to the Board of Governors of the IEEE Communications Society (2012-2014). He has further participated in standardization activities for 3GPP, 3GPP2, IEEE 802.20 and the IETF. Prof. Lozano is the coauthor of the textbook "Foundations of MIMO Communication," released by Cambridge University Press in 2019. His papers have received several awards, including the 2009 Stephen O. Rice prize to the best paper published in the IEEE Transactions on Communications, the 2016 Fred W. Ellersick prize to the best paper published in the IEEE Communications Magazine, and the 2016 Communications Society & Information Theory Society joint paper award. He also held an ERC Advanced Grant for the period 2016-2021. He was a 2017 Highly Cited Researcher, and a Distinguished Lecturer of the IEEE for 2023-2025.