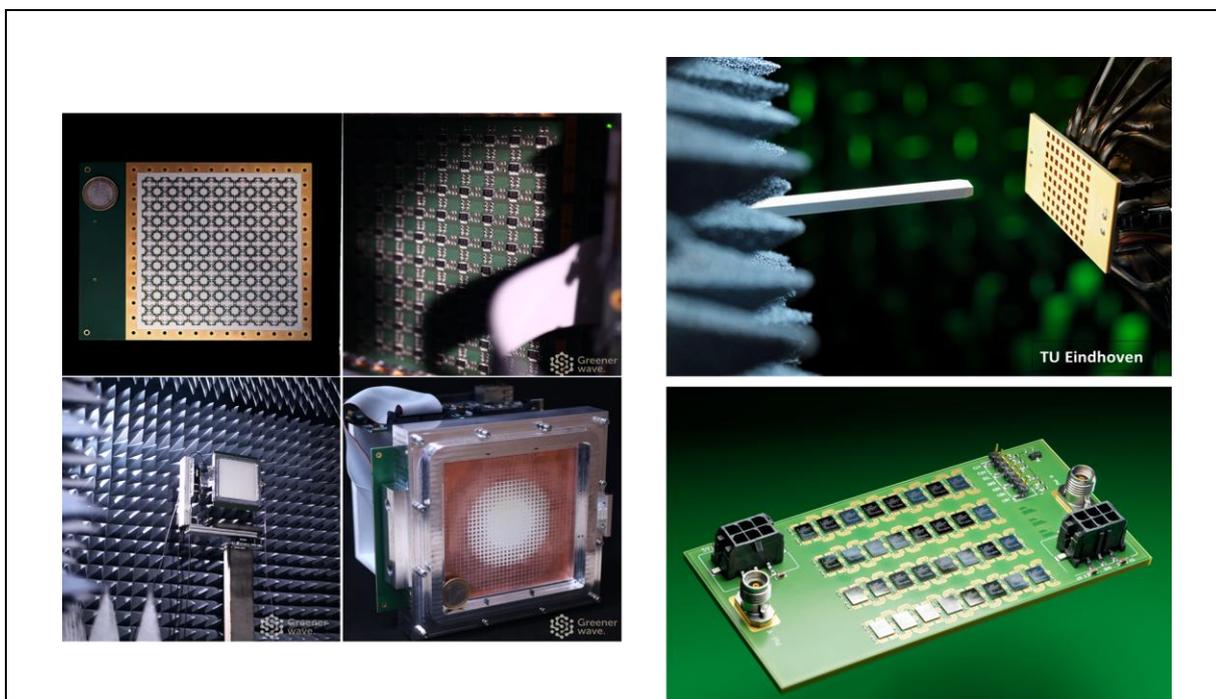


WGA3 Workshop ACTIVE ARRAY ANTENNAS

Abstract:

The workshop is being organised as an activity of the EurAAP Working Group on Active Array Antennas. At the EuCAP 2021 workshop, main integration challenges for mm-wave phased arrays were reviewed. Recently, new antenna technologies have been proposed as low cost alternatives for active arrays, e.g. based on metasurfaces or on the use of lenses. In this year workshop next to active array antenna solutions, also other approaches, particularly for connectivity at mm-wave, will be presented and discussed in a panel session.

Workshop outline:



The program of the workshop will include five technical presentations and a panel discussion:

9:00-9:10	Welcome introduction
9:10-9:40	“High-gain off-chip integrated metalized antennas for millimeter-wave wireless communication and sensor systems”, Marianna Ivashina (University of Chalmers, Sweden)
9:40-10:10	“Integrated array antenna research and experimental validation”, Bart Smolders (Eindhoven University of Technology, The Netherlands)
10:10-10:40	“Ka band phased array developments at ViaSat”, Maria Carolina Vigano (Viasat, Switzerland)
10:40-11:00	Coffee break
11:00-11:30	“Different ways of reconfiguring metasurface antennas for on-the-move communications”, Cristian della Giovampaola (Wave Up, Italy)
11:30-12:00	“Electronically reconfigurable leaky cavities for Satcom and 5G applications” Geoffroy Lerosey, (Greenerwave, France)
12:00-12:40	Panel discussion (moderators: Enrica Martini, Stefania Monni)