

Abstract : Since its creation in 1986, Microwave Vision Group (MVG) has become a globally recognized expert in the visualization of electromagnetic waves for the accurate and rapid testing of antennas and wireless connectivity. The main activities of the company relate to antenna and wireless measurement systems, electromagnetic compatibility and environmental test solutions such as dosimeters. The company has been continuously developing innovative solutions for more than 30 years. MVG Industries, a Microwave Vision Group company, is currently developing a medical scanner based on the principle of microwave imaging called 'Wavelia' (www.wavelia.com).

This presentation will be divided into three main parts. In the first part, the background aspects of the development of the Microwave Breast Imaging scanner named "Wavelia" by Microwave Vision will be introduced. In the second part, the development status of the medical device will be presented, followed by a brief description of the first generation prototype that was used for the First-in-Human clinical investigation in Galway, Ireland, and the main results of the FiH clinical investigation. Finally, in the third part, the perspectives towards the second clinical investigation will be given.