

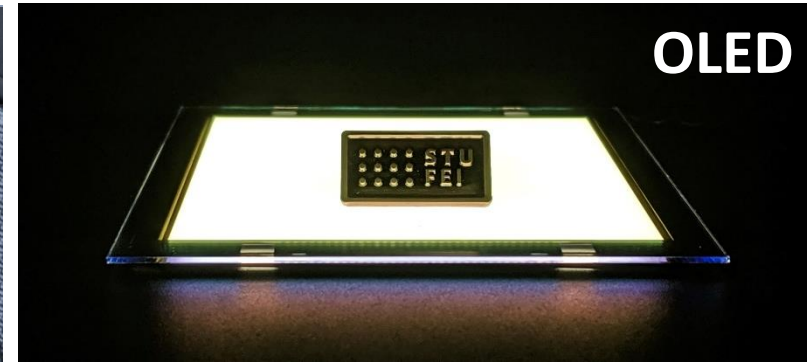
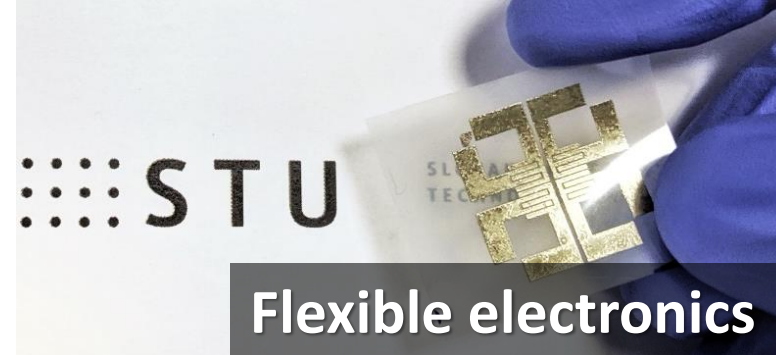
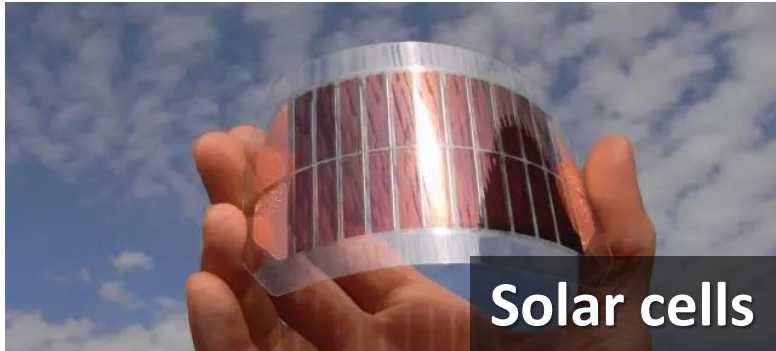
# Organic Electronics Lab

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Slovak University of Technology in Bratislava  
Institute of Electronics and Photonics

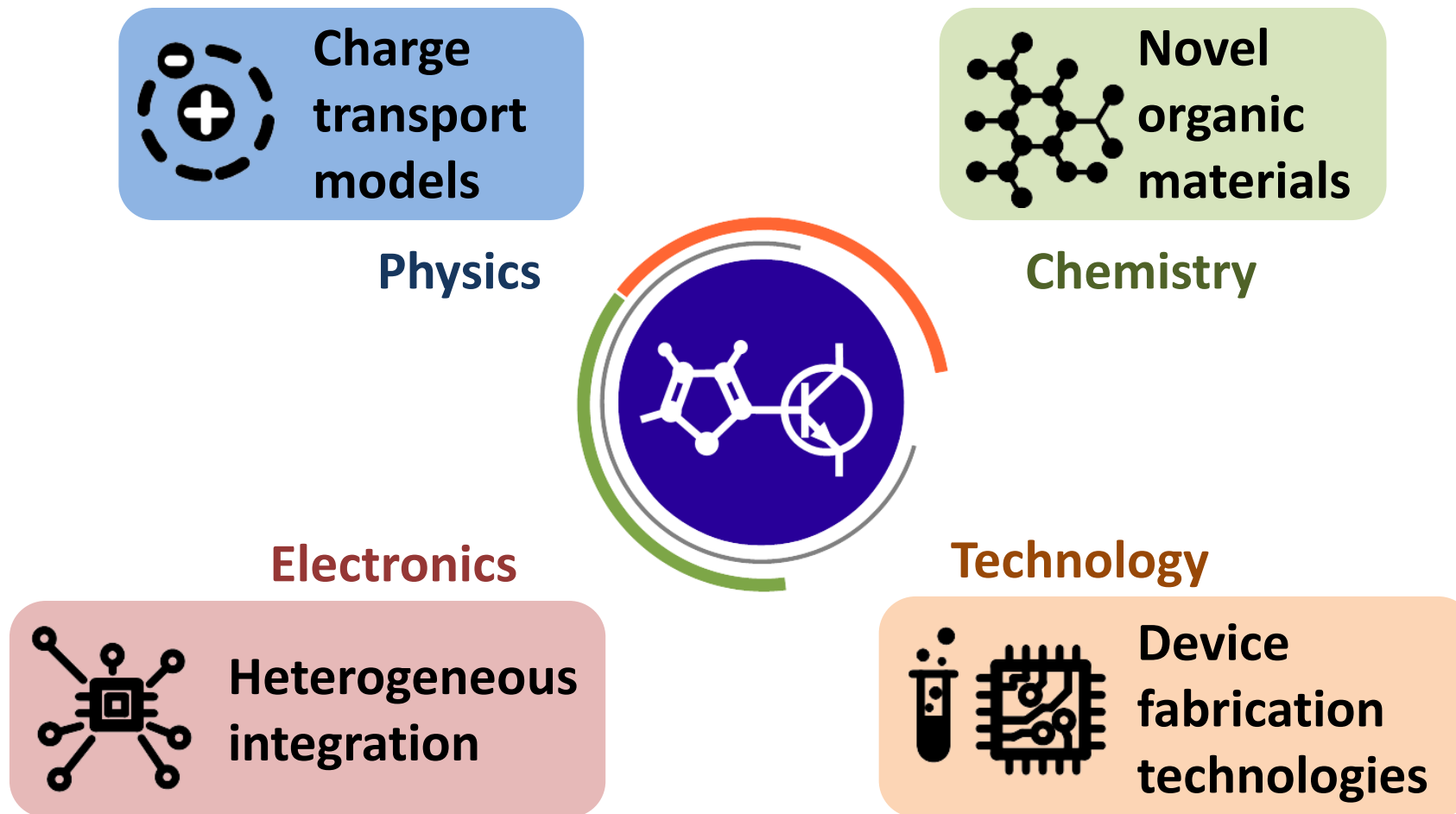


# What is the organic electronics?

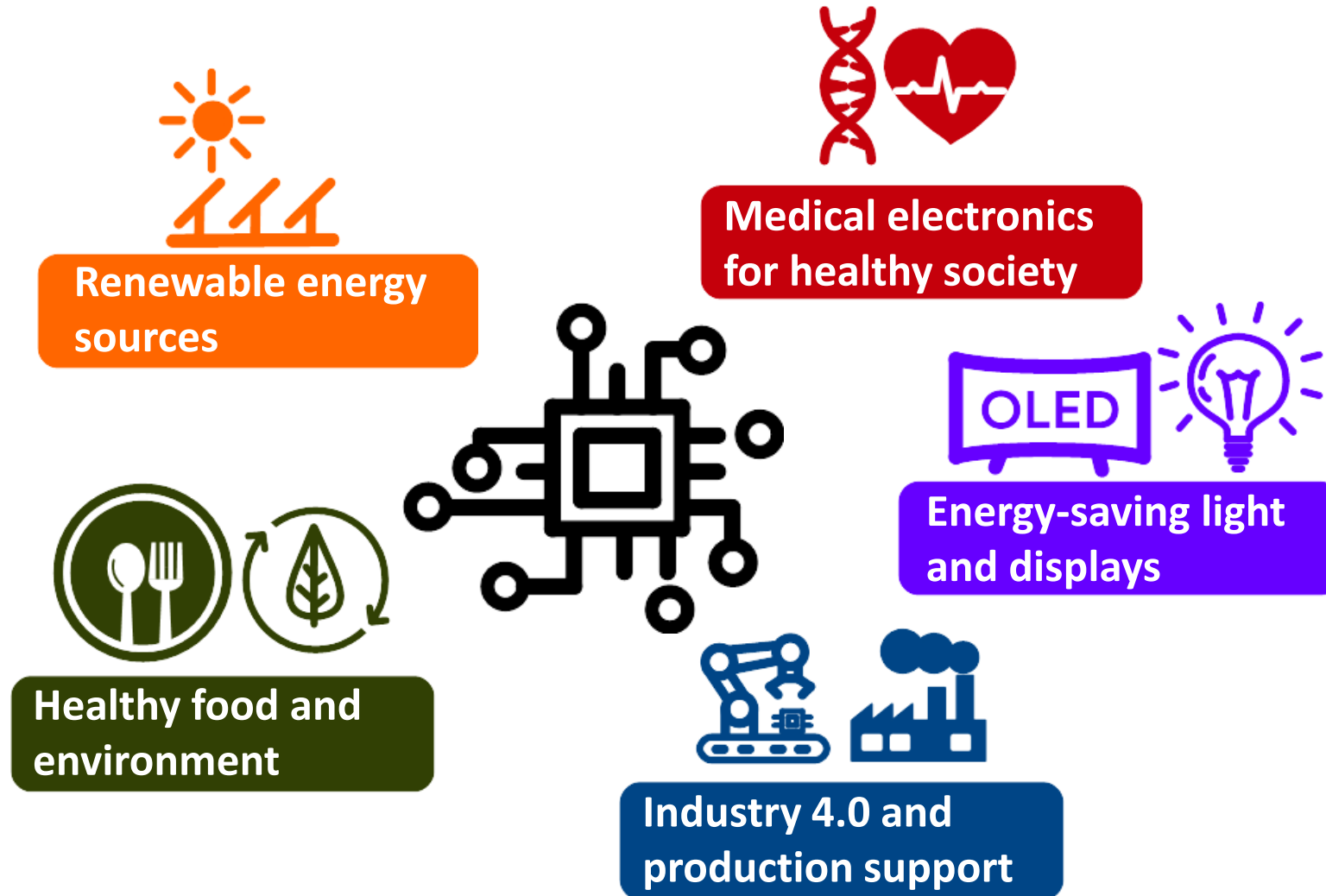
- Electronics devices utilizing organic materials with semiconductor-like behaviour



# Where do organic electronics belong?



# Expected applications



# Challenges



**Device  
speed**



**Device  
encapsulation**



**Small  
dimensions**



**Wet deposition  
technologies**

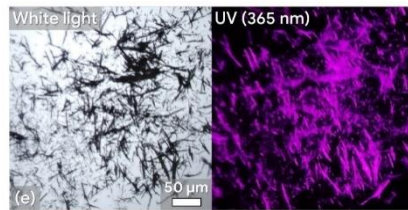
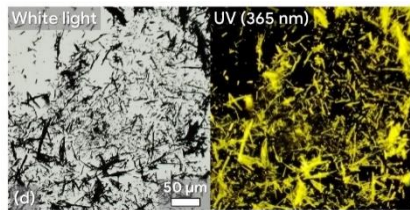
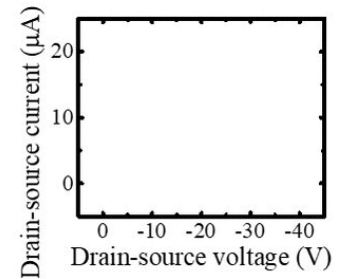
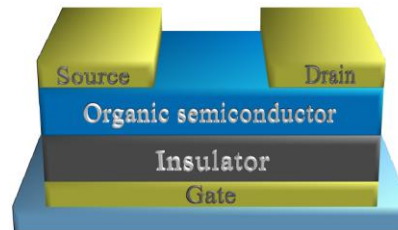
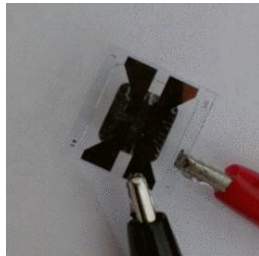
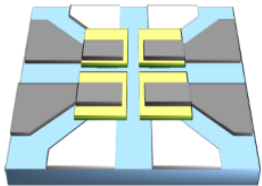
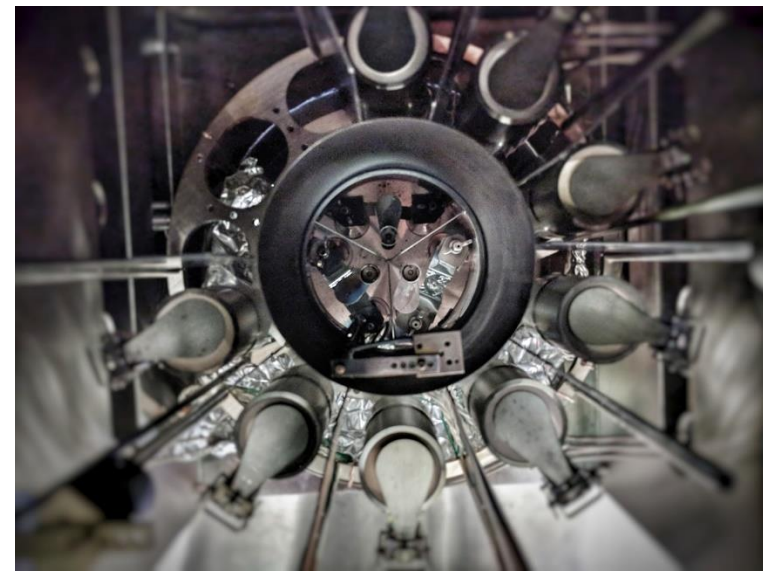
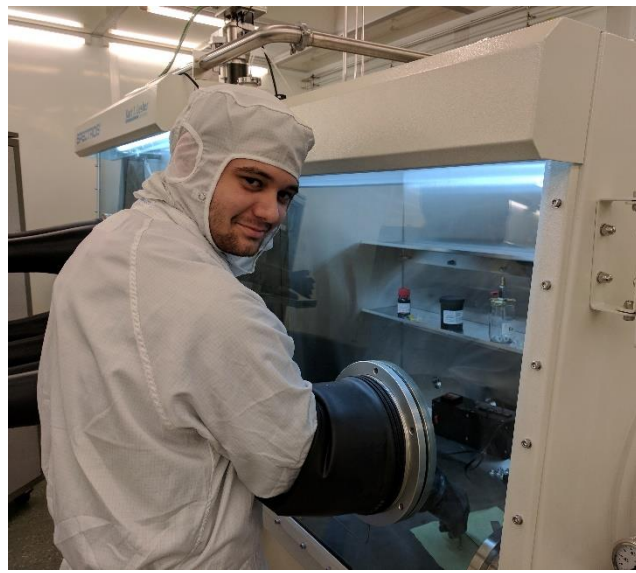


**Biocompatibility**

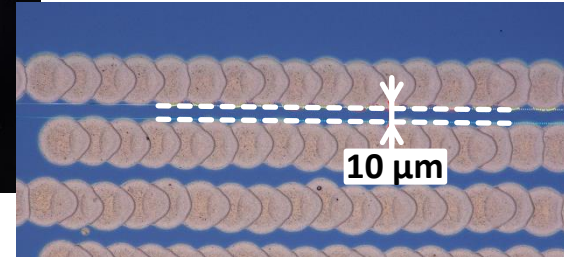
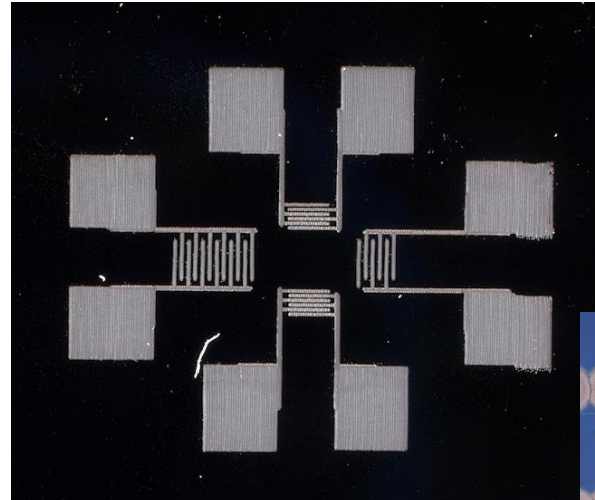
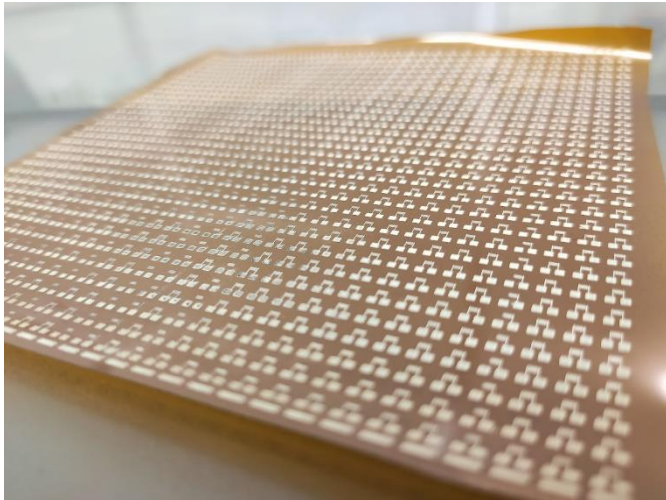
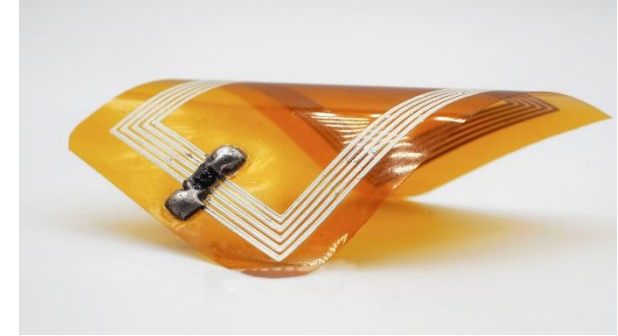
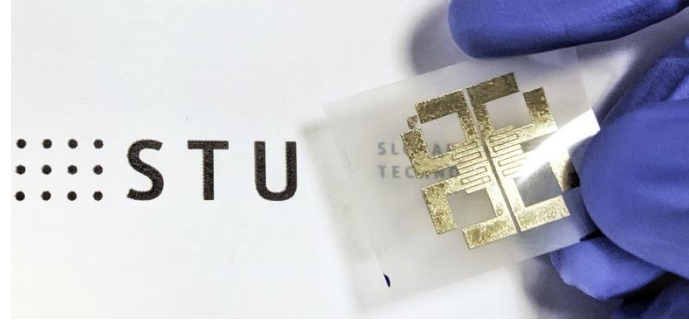




# Clean rooms facility

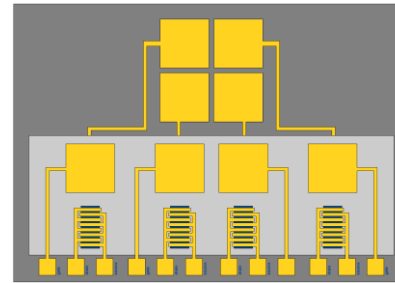
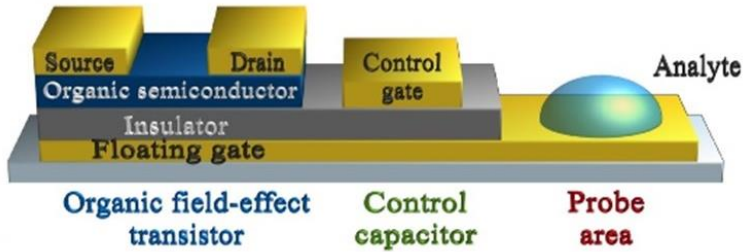


# Printing technologies

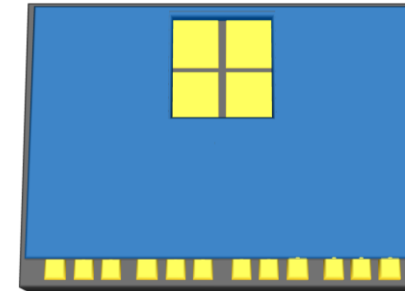




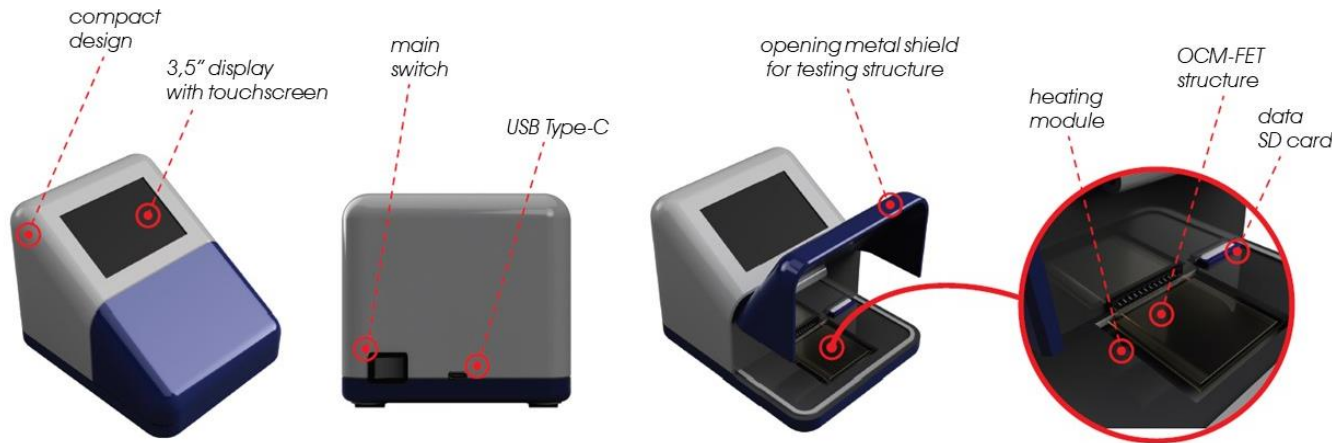
# Focus on sensors for medical electronics



Sensor geometry sketch

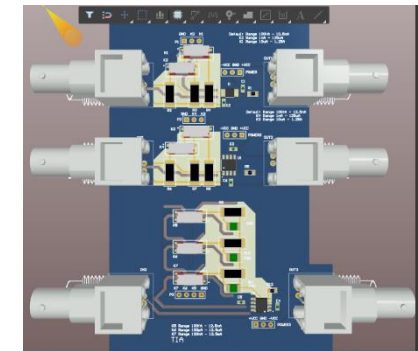


Encapsulated sensor visualization



Measurement system housing

Low current measurement unit



Important Projects of Common European Interest (IPCEI) on Microelectronics II

