



Jeff Punch

CTVR

**The Telecommunications
Research Centre**





USERS



CONTENT / APPS

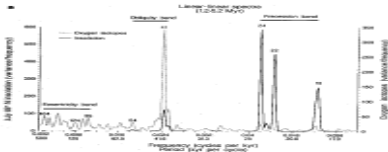
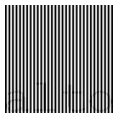


DEVICES



BASESTATIONS / ACCESS POINTS

RADIO ACCESS NETWORKS



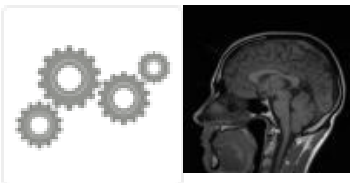
SPECTRUM



BACKHAUL OPTIONS / CORES



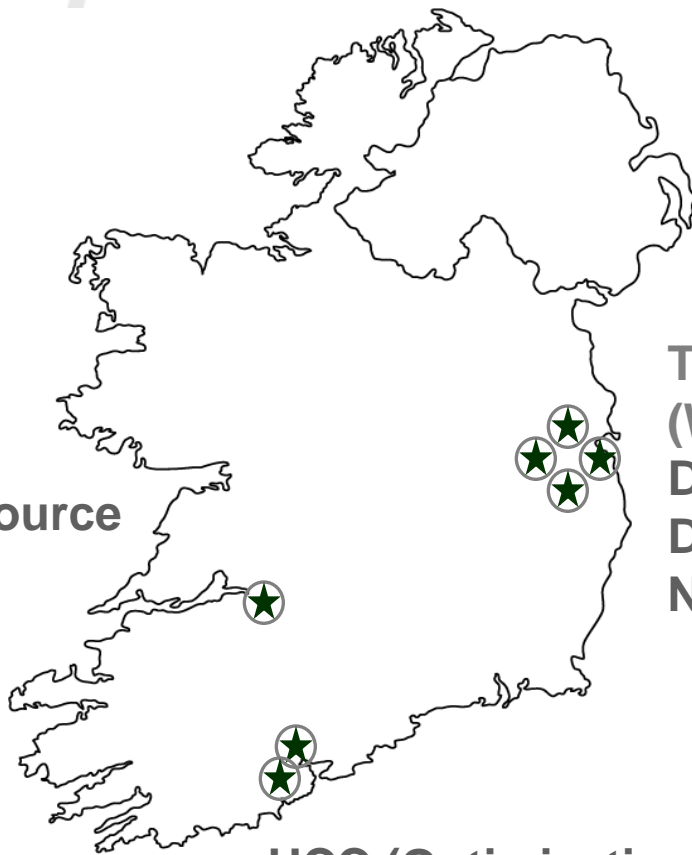
CLOUD RESOURCES



SMARTS / INTELLIGENCE

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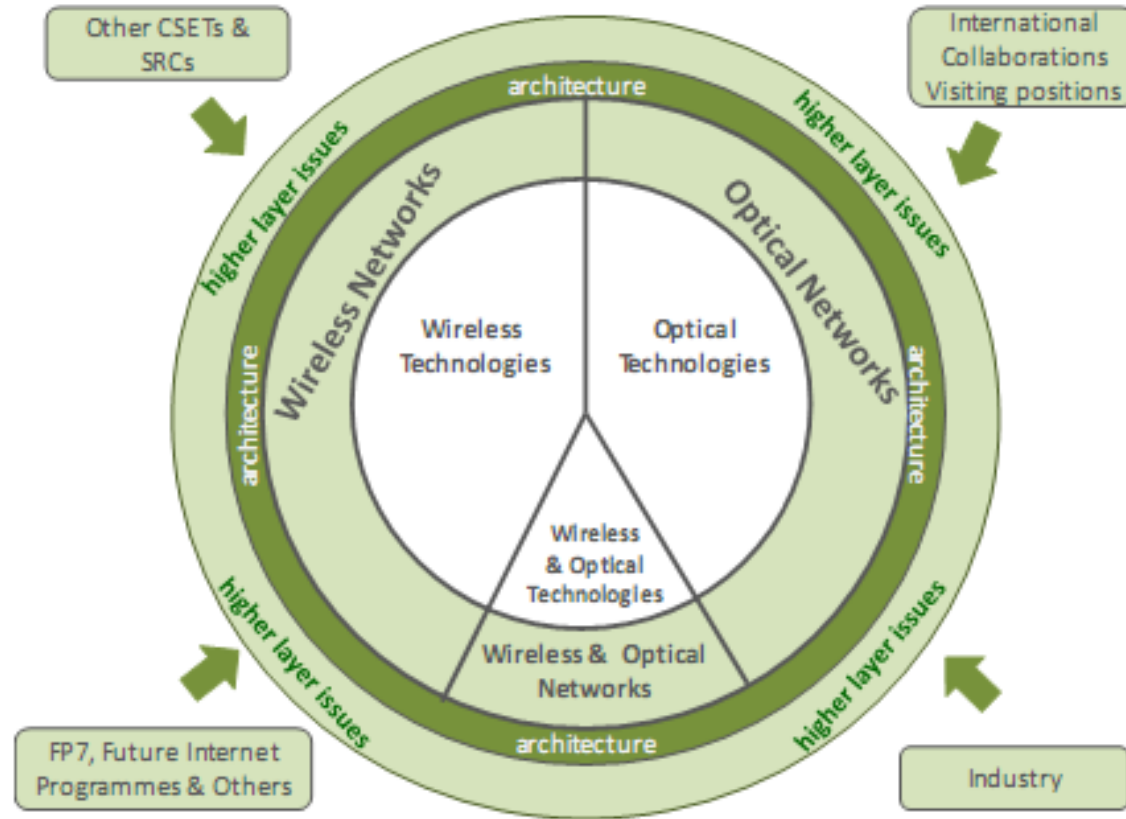
UL (Thermal / Resource Management)

TCD
(Wireless / Optical Networking)
DIT (Antennas)
DCU (Optical Systems)
NUIM (RF Design)

UCC (Optimisation / Mobile Communications)
Tyndall (Photonics Integration / Photonic Systems)



ARCHITECTURE



TECHNOLOGIES

THESIS

THESIS IN 3: THE ELEVATOR PITCH FOR A PHD

