

Key research themes:
Transport resilience

SHORT LIST

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Category: **Crossmodality**

Country: **Ireland**

The EU-funded PRECINCT (Preparedness and Resilience Enforcement for Critical Infrastructure Cascading Cyberphysical Threats, 2021-23) will connect critical infrastructure stakeholders in a geographical area to a cyber-physical security management method that will produce a protected territory for citizens and critical infrastructures. As part of PRECINCT, Dr Carroll and his team have developed a Serious Games tool. Serious Games are computer-based simulations that merge knowledge and skills development with video game-playing aspects to enable active, experiential and problem-based learning. The Serious Game concept has been patented and with further development it has many applications including training policy makers and industry practitioners to make more informed and better decisions regarding investing public resources to increase the resilience of transport networks and minimise vulnerabilities to cyber-physical threats.