

Smart Stadium Initiative/Smart Living



Have you ever been to a game and wished you could view a touchdown or goal from a better angle?

Have you ever wondered what your friends in other parts of the stadium are saying about it?

How about ordering a hot dog or a team shirt from your seat?

Have you ever been sitting in traffic after a game and wondered which would be the quickest route home?

If only you had an app for that!

The technologies that will one day allow all of these are currently being developed by ASU and DCU teams in collaboration with Intel.

This initiative will use ASU's Sun Devil Stadium renovation project and Ireland's Croke Park Stadium as the venues for deploying pilot Internet of Things (IoT) technologies and demonstrating their capabilities.

As venues managing several tens of thousands of people, they provide unique opportunities for exploring innovative projects through which large, medium and small companies can beta test and pilot new ideas and solutions for connecting the physical with the online world in ways that foster smarter living. It will also facilitate collaborations for start-up companies and entrepreneurs to realise their own ideas.

Ongoing research projects focus on enhanced fan experience via smart-stadium applications based on personalised, social-media enabled and context-aware data analytics and research on multi-modal sensing for understanding crowd density and behaviour. Intel is providing selective components of its IoT end-to-end architecture to facilitate the research and pilot deployments.

Evolving research projects that will contribute to this vision of smarter living, including next-generation telecommunications, ethics and policy related to smart stadia and wearable technology for sports are highlighted in the coming pages.



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