



Innovating for impact: Technologies for a smart society

The CSIR has established itself as a leader in generating innovations with impact, consistently delivering groundbreaking solutions across various sectors. In this newsletter, we bring you four technologies that demonstrate the vital role that commercialisation plays in translating the CSIR's research prowess into tangible impact.

To unlock the true potential of CSIR innovations, commercialisation is key. It facilitates accessibility, scalability and integration into industries, ultimately leading to economic growth, job creation and an enhanced quality of life.

The economic benefits of successful commercialisation are substantial. When embraced by industries, CSIR innovations optimise operational efficiency, reduce costs and enhance the competitiveness of sectors. This drives economic viability and ensures the sustainability of both the innovations and the industries they influence.

The path to commercialisation is, more often than not, fraught with challenges. Overcoming technical obstacles, securing funding and forming strategic partnerships are integral components of the commercialisation journey.

The CSIR's commitment to commercialisation aligns with its broader vision of shaping a sustainable future. By ensuring that its innovations meet industry standards and become market leaders, the CSIR plays a pivotal role in driving the adoption of sustainable practices, reducing environmental impact, and fostering innovation ecosystems.



CSIR Goafwarn: Revolutionising safety in underground coal mining

CSIR Goafwarn is a groundbreaking solution that revolutionises safety in underground coal mining. It specifically addresses the risks associated with goafing, that is, the collapse of unsupported roof or overlying strata in a mined-out areas.

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Revolutionising South Africa's construction industry: Introducing the CSIR-developed green cement

The tale of the CSIR-developed green cement goes beyond technological innovation; is an innovation that promises a future where sustainability and affordability coexist harmoniously.

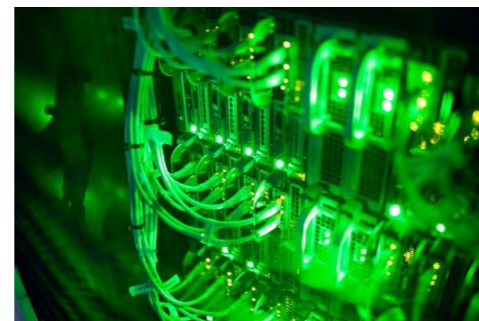
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From lab marvel to global pavement pioneer: Journey of the CSIR heavy vehicle simulator

In the halls of scientific innovation, South Africa's heavy vehicle simulator (HVS) has carved out its place as a groundbreaking tool in road infrastructure. Developed by the CSIR, this huge machine has revolutionised the way roads are assessed and designed, offering a glimpse into the future wear and tear of roads.

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Qfrenzy TTS: Technological symphony crafting connections and changing lives

Step into the world of Qfrenzy text-to-speech (TTS), a symphony of technology orchestrated by the CSIR Voice Computing Research Group. Qfrenzy TTS is the first commercial text-to-speech engine that can synthesise speech in all eleven officially spoken languages of South Africa, with South African Sign language being the twelfth.

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