



TRANSFORMING SINGAPORE INTO A SMART NATION



INTRODUCTION:

Infocomm and media (ICM) technology is of utmost importance to Singapore. Creative and effective use of technology allows Singapore to connect as a community and enables a better quality of life for all Singaporeans. It also allows Singapore to overcome the constraints of its size and enables its companies to serve global markets.







We will make Singapore a Smart Nation: enabling safer, cleaner and greener urban living, more transport options, better care for the elderly at home, more responsive public services and more opportunities for citizen engagement.

- President Tony Tan, President's Address at the opening of the second session of the Twelfth Parliament

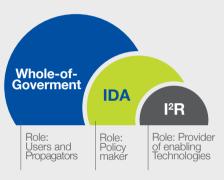


I²R's Key Focus Towards Realising A Smart Nation

A key driver of the Smart Nation Initiative, I²R seeks to realise the vision of the initiative by focusing on two tracks: **Forging stronger public-public partnership and building closer public-private partnership**.

Key Focus #1: Government Bodies Brought Together By Common Platforms And Data

A public-public partnership will see government agencies engaged and connected via common platforms to realise a smart nation.



How it works:

- Government will be the lead user in creating smart, connected and sustainable districts like the upcoming Jurong Lake District. These districts will serve as largescale test beds that will eventually be scaled up to the national level.
- A system approach will see innovations shared across the whole of government, reducing cost and increasing effectiveness.
- I²R to be the ICM R&D centre for national initiatives, with other government agencies and ministries leveraging on I²R's R&D capabilities.

Key Focus #2:

Collaboration Between Government And Key Stakeholders

The Singapore government invites industry to be a partner in creating new technologies that will enable a smart nation. The government will work hand in hand with corporations to deliver innovative ICM solutions that will optimise our national resources, drive productivity for critical industries, and build globally competitive Singapore-based companies.

Key Partnership #1:

Government and Multinational Corporations (MNCs)

Key Partnership #2:

Government and Local Globally Competitive Corporations (GCCs)

Key Partnership #3:

Government and Small and Medium Enterprises and Technology Start-ups (SMEs)



About Institute for Infocomm Research (I²R)

The Institute for Infocomm Research (I²R) is a member of the Agency for Science, Technology and Research (A*STAR) family and is Singapore's largest ICT research institute. Our strategic thrusts are in the spheres of intelligence, communications and media and our research capabilities are in shared sensor networks, public-public/public-private data-sharing platform, big data analytics and visualisation solutions. For more information about I²R, please visit **www.i2r.a-star.edu.sg**



STRONGER PUBLIC-PUBLIC PARTNERSHIP

Whole-of I2R for Whole-of-Government

Government agencies will work closer than before so that innovations are implemented across the whole of government. They will do so by pooling resources and, in some cases, by focusing on test bed projects that can be scaled up to the national level.



Singapore has the unique opportunity to be the world's first smart nation, where any parts of Singapore can be connected to different parts of Singapore.

- Steve Leonard, Executive Deputy Chairman, Infocomm Development Authority of Singapore, at the CommunicAsia 2013 Summit

PUBLIC-PRIVATE PARTNERSHIP

CREATING AN INNOVATION ECONOMY We recognise that the integration of smart technologies in a smart nation needs to be in tune with economic realities. Hence deep public-private engagement is critical. To achieve this, I²R collaborates with corporations to conduct joint research and to co-innovate. The first step taken towards this was the launch of the first wave of joint laboratories by I²R. Collectively called REACH @ I²R (the REsearch And Commercialisation Hub), these 13 joint laboratories are where collaboration with enterprises will take place.

Engaging MNCs

A number of MNCs have co-founded joint laboratories with I²R. These laboratories create high-value jobs and develop a pool of locally based researchers with deep expertise, which strengthens the foundation of Singapore's knowledge-based economy.

The IPR - McLaren
Applied Technologies
Joint Laboratory
partnership will explore
predictive analytics,
modelling and simulation for
the transportation, energy,
healthcare and wellness
industries.



In 2012, Internet giant Baidu and I²R established Baidu's first overseas research laboratory called the **Baidu-I²R Research Centre** (BIRC) in Singapore. The centre focuses on Natural Language Processing.

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Growing GCCs

I²R works with local globally competitive companies to strengthen their competitiveness in the global market through research and innovation, so that they will grow.

The NCS
Group and I²R
launched a joint
laboratory to develop
Big Data Analytics
technology innovations,
with focus on
harnessing insights
and creating value
from data assets.

The I²R-STEE Info-Comm Joint Laboratory sees ST Electronics (Info-Comm Systems) and I²R pooling their strengths to develop advanced softwaredefined communication systems.

An alliance between
DBS and I²R created the
I²R-DBS Joint Laboratory,
which focuses on creating new
ways to engage customers
through innovative
technology.

Empowering SMEs and Start-ups

I²R works closely with IDA and SPRING Singapore to support SMEs and technology Start-ups. The goal: To increase the productivity of SMEs by creating ready-to-deploy technology that improves productivity and reduces manpower demands.



With StarHub
proven cloud platform
technology coupling
with I²R SMP technology,
Reachfield IT

combines the cream of the crop technologies and provides a stable, scalable and robust video solution to our existing customers. Fosta, a vibration and noise monitoring company for the building and construction industries, installed a new remote vibration monitoring system that was jointly developed with I²R that will increase productivity by 50%.

I²R spin-off
Knorex is licensing
its ARise augmented
reality app to six
regional newspapers.
The key component in
the app is Snap2Tell,
an award-winning
software developed
by I²R.



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