

# Weekly Discovery

We SHARE to inspire and ignite ideas!

14 December 2015 – 18 December 2015

TECHNOLOGY

## 3-D's Nothing; Let's Go 4-D



Here's something from SUTD! Our researchers and Georgia Tech have collaborated to design smart shape-memory materials to demonstrate 4-D printing! This can result in complex structures capable of folding on their own, responding to external stimuli such as temperature, moisture or light to change to a preset shape. Potential applications of these materials may be in space structures, medical devices and robots! Way to go, SUTD!

Source: [Industrial Engineer : IE](#) (December 2015)

ENVIRONMENT

## How To Break The Climate Deadlock



Since November, hot discussions and debates have been ongoing at the 21st UN Climate Conference in Paris. Climate change and carbon emission issues need to be curbed at a national and international level, yet it has been difficult to reach an agreement, largely due to U.S. insisting on a free market approach. Read this insightful article in Scientific American written by a Harvard Professor.

Source: [Scientific American](#) (December 2015)

HEALTH

## Can Your Mobile Phone Make You Healthier?



There are many gadgets or mobile apps to track your health data in the market: step counting, calories tracking, sleeping hours and quality of sleep...all on a personal level. Researchers are now looking at it as a promising method to collect large scale data, in the hope of solving some health related problems! Perhaps there should be some greater good with our fanatic addiction to mobile phones.

Source: [Science Magazine](#) (December 2015)

INNOVATION

## Find Innovation Where You Least Expect It



Always hitting the same blind spot when looking for innovative ideas? You are not alone. We tend to face "functional fixedness" - that limits us to seeing an object only in the way in which it is conventionally used. Fret not, all of us can overcome this, with the tips in this article!

Source: [Harvard Business Review](#) (December 2015)

ENTREPRENEURSHIP

## Lyft's Search For A New Mode Of Transport

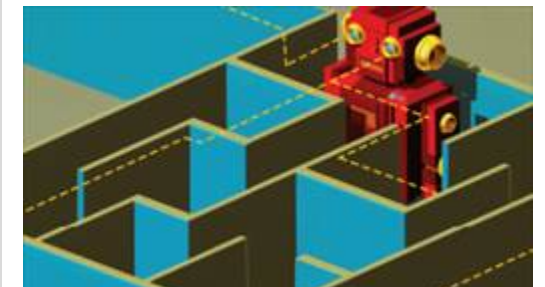


You might have heard of Uber, but have you heard about Lyft? How is Lyft different? It pools together strangers going to the same vicinity, on demand! They have smartly tapped on an existing business model, but with cheaper rides. What other existing ideas could you ride on to bring better benefits?

Source: [MIT Technology Review](#) (November/December 2015)

TECHNOLOGY

## Machines That Teach Themselves



Could a software teach itself new skills? Now, it can! Three researchers from universities in Canada and in the US developed deep learning technology. This technology is now being used by various companies, including Google and Facebook. How can we use such technology?

Source: [Scientific American](#) (December 2015)