

Linius Technologies Ltd

www.linius.com

(ASX: LNU)

26 July 2016
ASX Announcement

#### Linius real-world use cases

#### Highlights:

- Linius itemises a range of commercial real-world use cases for its software suite
- Updated presentation exploring and valuing use cases attached with this release
- Australian investor roadshow Wednesday 27 July Tuesday 2 August

**Melbourne, Australia:** Linius Technologies Limited (ASX: LNU, "the Company") is pleased to announce that it has exhibited a range of real-world use cases of its groundbreaking software suite, the Linius Video Virtualization Engine<sup>TM</sup>.

The stream of use cases will be available at http://www.linius.com/category/case-studies/.

"We understand that the technology behind the scenes of Linius can be hard to understand," said Linius Technologies Chief Executive Officer Chris Richardson.

"These real-world examples exhibit and quantify some of the impact Linius could have on various market segments. The potential use cases stretch far beyond the Company's initial goals of enabling internet TV ad personalisation while cutting the cost of storing, transcoding and delivering online video."

An updated presentation for investors exploring some of these use cases is attached with this release and will also be available at linius.com.

Linius' software could have the potential to transform the entire video value chain. These use cases are a few examples of many possible applications across the video value chain. The intent is for these use cases and the associated presentation to be a living document, that expands over time with more and more potential billion dollar disruptions.

The Company looks forward to updating investors on its progress toward commercialisation, and discussing the recent signing of its first commercial channel partner, on an Australian investor roadshow on the following dates:

Wednesday 27 July: Melbourne

Thursday 28 July: Sydney Friday 29 July: Melbourne Monday 1 August: Perth Tuesday 2 August: Perth

#### For more information, please contact:

Chris Richardson Tim Dohrmann

Chief Executive Officer Investors and Media

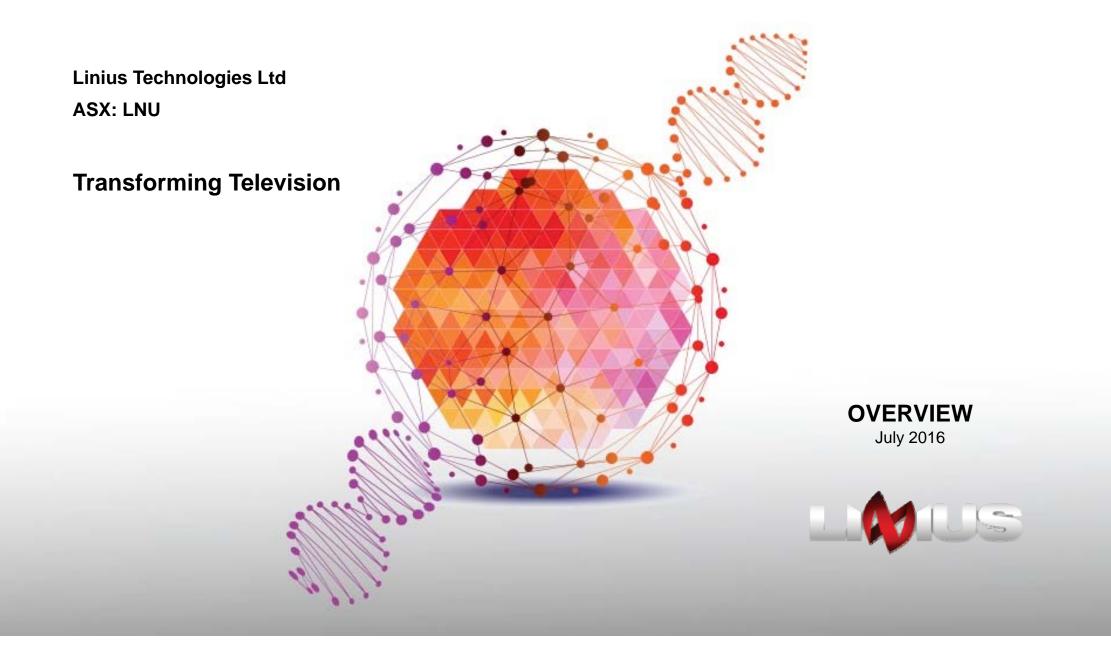
+61 3 9607 8234 / <u>info@linius.com</u> +61 468 420 846 / <u>tim@nwrcommunications.com.au</u>

#### **About Linius Technologies Ltd**

Linius Technologies Ltd (ASX: LNU) is a developer of disruptive video management technology. Based in Melbourne, Australia, it seeks to apply its lead product — the Linius Video Virtualization Engine $^{\text{TM}}$  — throughout the global digital video value chain to cut costs and boost revenues for enterprise customers.

Linius is pursuing technology showcase partnerships in the transcoding, content distribution and video playout markets as it progresses toward commercialisation.

www.linius.com



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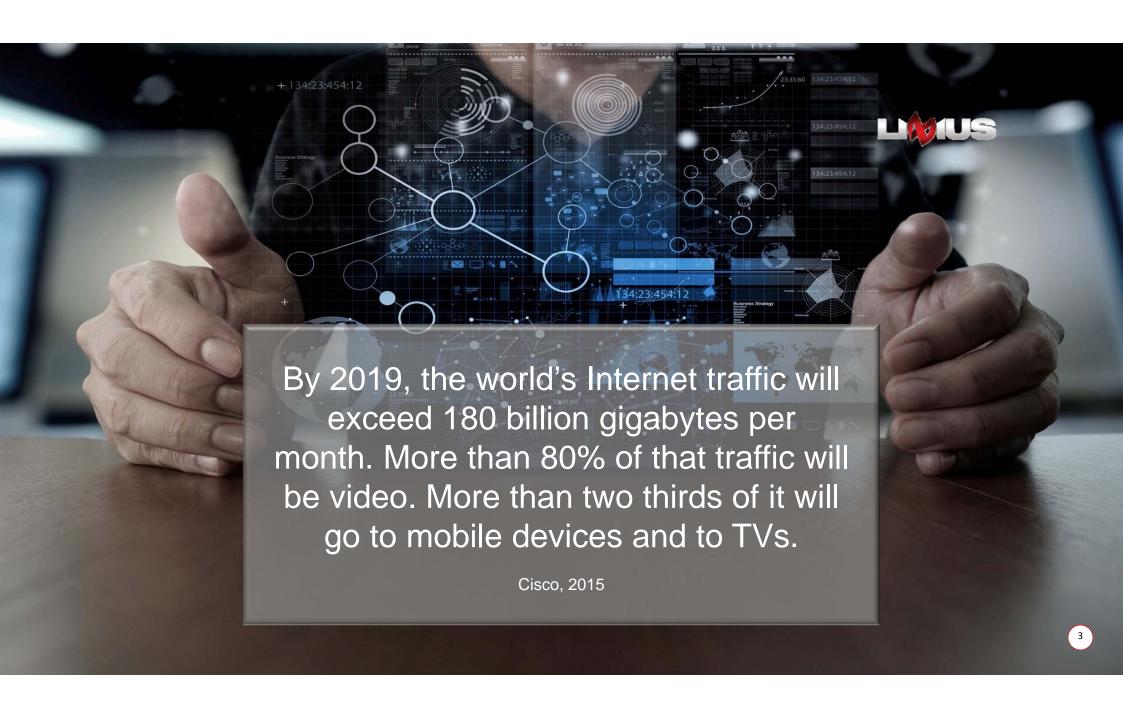
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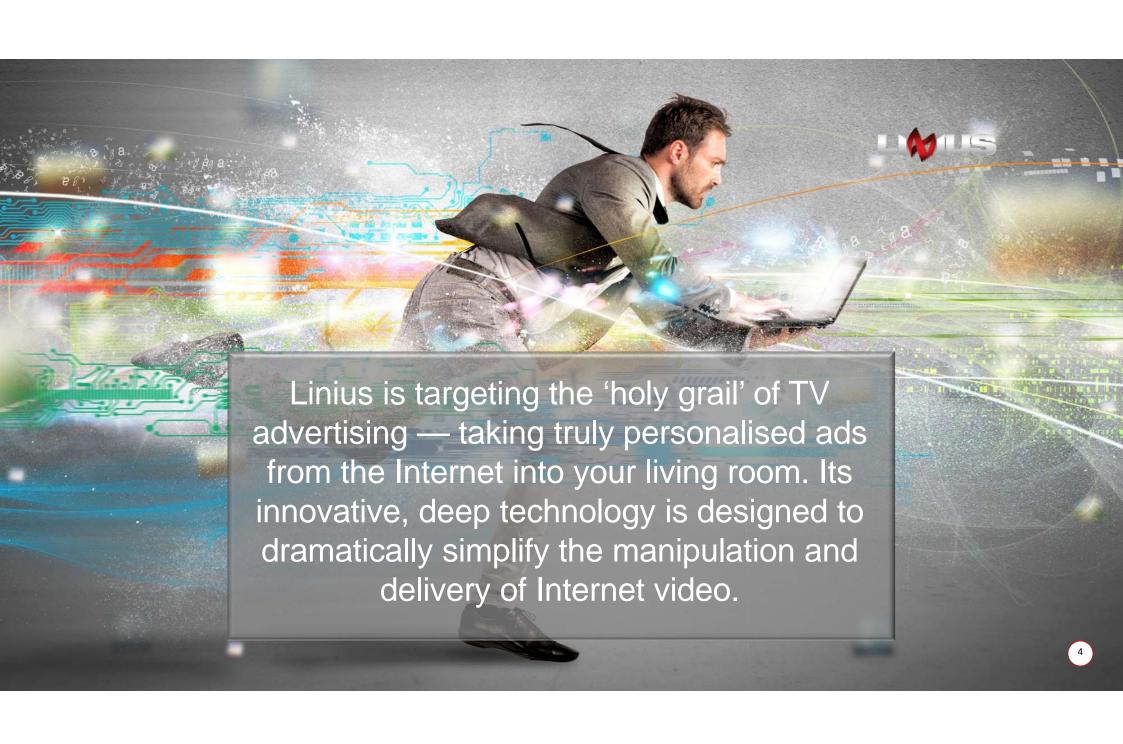
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The use cases described in this presentation represent hypothetical future uses, based on Linius technology. These applications would require software to be written and integrated with Linius products.





# Investor Highlights





Transformative
video technology
set to disrupt
several multibilliondollar markets



A compelling offer to enterprise customers, offering significant potential to cut costs and boost revenue



First technology partner signed to showcase Linius' capabilities in personalised advertising



Lean corporate structure with deeply experienced board and management team

# The global video value chain



- The existing video workflow process is a legacy of pre-digital video days. Managing video assets is a complex, labour-intensive and expensive ordeal for infrastructure providers, content owners and broadcasters
- Instances of each video file multiply down the chain to support many different formats and devices. The internet was not designed to handle these large, inflexible files
- The video value chain was worth more than US\$16.5 billion in 2014¹ and is growing strongly, but is bloated with costs through the eight steps from recording to audience playout

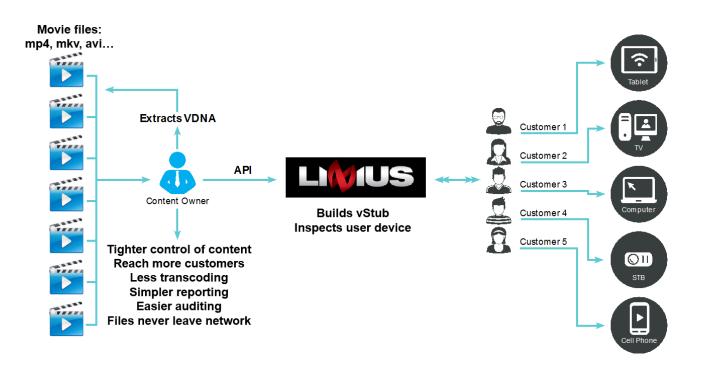


## Enhancing the DNA of internet video





Linius removes complexity from video workflow by managing data within the file at the source





The Linius technology extracts a tiny index file (a 'vStub') from a video asset. Users modifying the video through this vStub which contains the video DNA (VDNA) — leaving the vast bulk of the file (raw, binary data) untouched



Linius is designed to help users execute work that currently demands crunching several huge multi-gigabyte files by, instead, dealing with only a few kilobytes of data

## The Linius Impact



Integrating the Linius technology into key parts of the video workflow process should dramatically cut labour and capital costs



The Linius VVE™ (Video Virtualization Engine) offers the potential to disrupt the entire digital video value chain

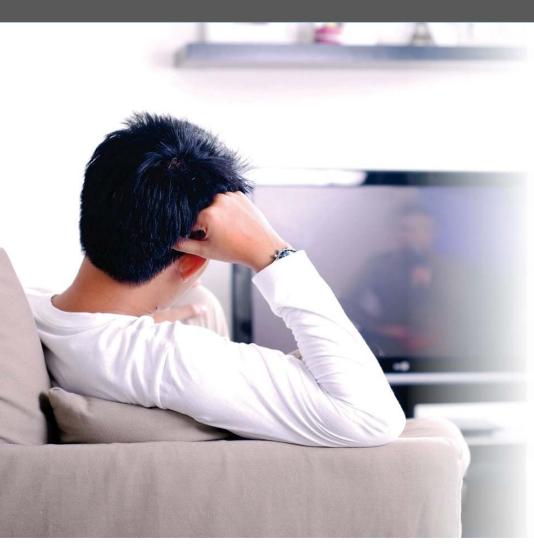


Enabling new monetisation models by providing an intelligent media format for integration with blockchain, M2M, and IoT communication



### Personalised Ads for Cable TV





#### Uniquely targeted ads for the 10-foot experience

Global TV ad spend: \$193 billion (Magna Global, 2015)

- Integrating the Linius technology should let cable and internet TV operators serve viewers the same kind of personalised advertising experience that we currently expect online
- Customising a unique video stream for each audience member unlocks significant new revenue opportunities for content presenters
- Personalised, targeted advertising secures an average of 2.7x the revenue per ad of non-targeted 'run of network' campaigns<sup>1</sup>

1: Network Advertising Initiative, 2010



## Disrupting the transcoding market

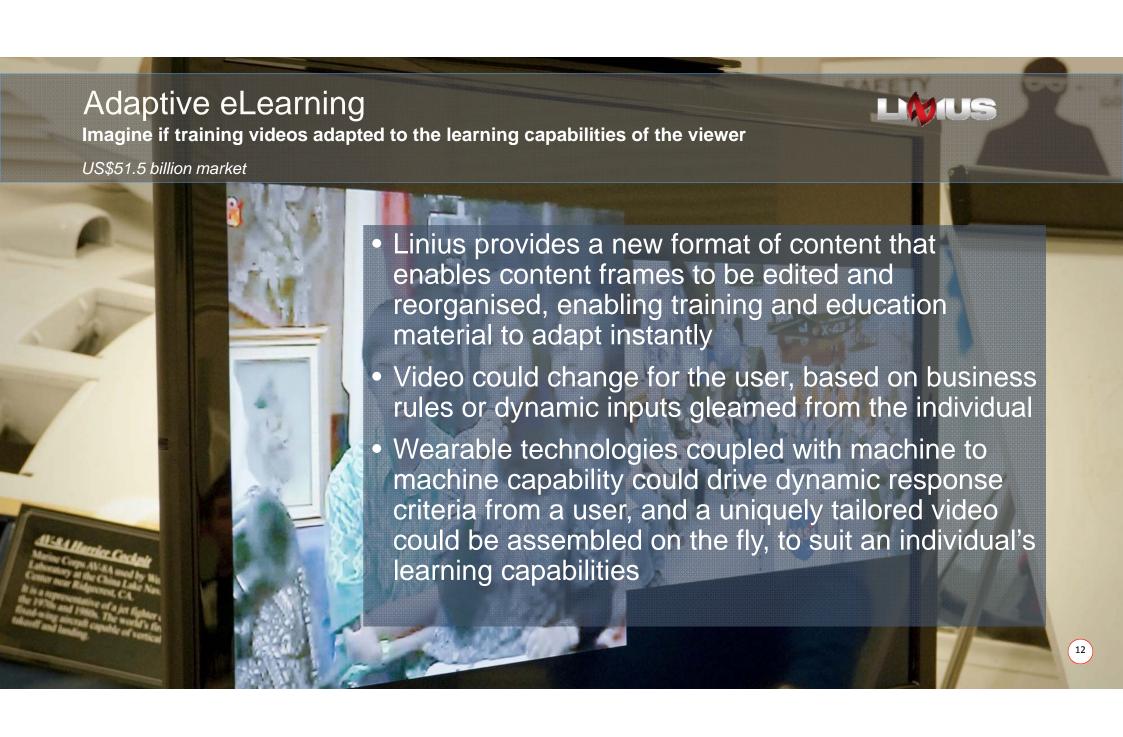


The direct digital-to-digital conversion of one encoding format to another...adapting content for playback on different devices

One file to rule them all

A US\$1 billion industry (Frost & Sullivan, 2014)

Transcoding firms convert master copies of digital video files between formats and to various aspect ratios and quality levels. They create dozens of large versions of each video. One TV studio transcodes more than 300 versions of its titles to support all formats and devices (PWC, 2014). Linius removes the need to transcode MP4 files for different device formats.



### Video Surveillance

How fast can you watch the film?

US\$37.5 billion on surveillance alone (not including manpower)





Less than 1% of surveillance video footage is seen by a human, and analysis of an event often takes hours or days.

Example: A white van travels around an embassy three times in a row, triggering an that alert is processed by technology looking at infield information.

Using computer modelling, the cameras around the perimeter are instructed to track and focus in on the object, detecting a license plate. An alert is sent to a human resource who cues the footage and starts analysis on this elevated flag.

Linius could sit in between the surveillance detection technologies (facial, movement, heat) and the person, and collate frame-based events out of each camera and package these events immediately after they have taken place — greatly reducing the time to make decisions on threats, and removing the need for humans to try to identify video from each feed on each camera and then make a decision.

Depending on the complexity and number of feeds of video, this could potentially cut the time to take action on a threat from hours or days to minutes, and potentially shift dealing with a threat from post event to at event.













### Transforming access to value in Gaming / eSports / Gambling



Linius transforms access to valuable event structure in video for analysis and sports betting or performance

eSports users are currently worth \$3.53 in revenue per user. There are 400 million of them in 2016.



- Ever heard of "League of Legends"? It's a video game. The online viewership for its "championship" was about halfway between that of an NHL final and NBA final.
- Imagine the value to professional gamblers and gamers if you could instantly search, isolate or assemble scenes of in-game video, or sports events such as horse racing, to ascertain player, team or horse performance prior to betting on the outcome
- With the growth and traffic of eSports, being able to identify event structure and repurpose it quickly and simply brings immense value to the entire industry
- Linius uses a single video file for all edits as opposed to multiple files for every scene of edit. Linius enables machine-to-machine intelligence in assembling, editing and presenting relevant media

### The Connected Car



Imagine Holden as a new sports broadcaster.

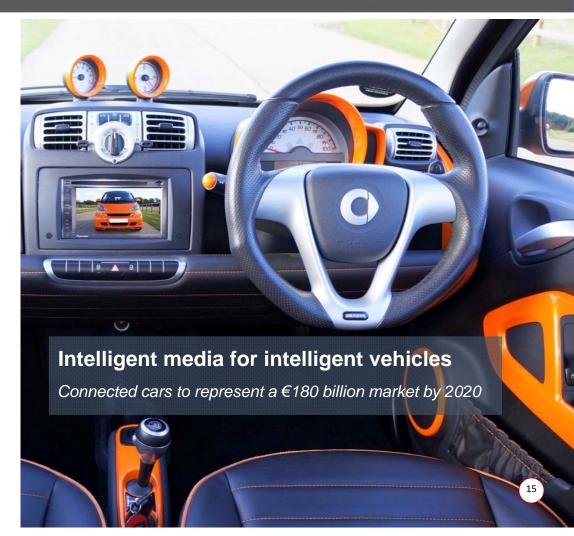
Linius enables car companies to become the new distribution gateway for intelligent media.

Imagine, as passengers, we want to watch last night's football game. The car navigation system says we have 17 minutes to get home.

Our favorite team is the New England Patriots, we have 3 favorite players and we're interested in game highlights (touchdowns, penalties, incidents etc).

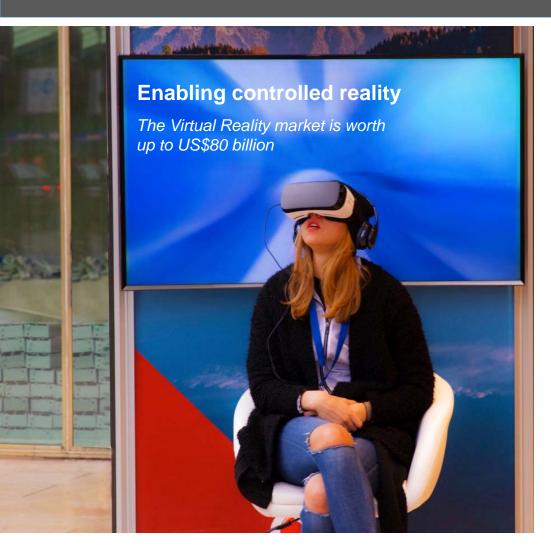
Using these inputs, Linius enables machine-tomachine editing, and a piece of content suiting our needs is built on the fly and delivered to us to suit not only our tastes but to suit our trip time.

This is possible using Linius and metadata relating to event structure in scene of content.



## Virtual Reality





Linius enables new ways to experience content using Virtual Reality.

"Controlled reality" is a method where the control of media content is filtered and produced for an individual.

Using standard Linius methods for content personalisation, the advent of VR technology paves a way for the next advancement in content personalisation by attaching it to new hardware.

Imagine if through your VR headset, news was 100% relevant to you and sporting events were produced in a manner that is relevant to you.

You could use gestures to search for an event within video footage. Elements inside the footage could be tagged using gestures.

Controlled reality — VR content, just for you.



**Chris Richardson Chief Executive Officer** 

t: +61 3 9607 8234

e: info@linius.com

Tim Dohrmann

**Investor and Media Relations** 

e: tim@nwrcommunications.com.au

m: +61 468 420 846



www.linius.com

