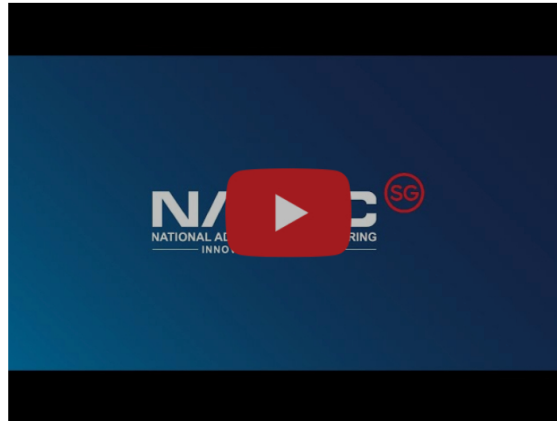


[View this email in your browser](#)**AM MATTERS**  
Q1 2023Supported by  
NATIONAL RESEARCH FOUNDATION  
a\* Ministry of Education  
Singapore

### COME SHARE IN OUR FUTURE

NAMIC has been partnering businesses in innovation and building new ways of design and production by accelerating the adoption of digital additive manufacturing solutions. Come join us in our vision to enable a circular economy future with products and solutions that are sustainably designed and produced.

We would like to thank our valued partners featured in this video.



### 2022 IN REVIEW



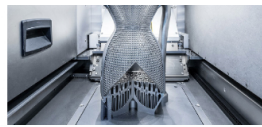
NAMIC's flagship events — the Start-up Innovation Forum (SIF) and Global AM Summit (GAMS), returned in-person in 2022, attracting more than 5,000 delegates from 13 countries. Held in conjunction with Industrial Transformation Asia Pacific (ITAP) 2022 and themed "Embracing Sustainability and Supply Chain Resilience with 3D Printing", GAMS welcomed 14 international thought leaders to discuss decarbonization and supply chain resilience through additive manufacturing. The highlights include the AM Experience Zone, specially curated to provide ITAP visitors with a one-stop experience on the entire Additive Manufacturing value chain. Innovative products with topology-optimised designs enabled by an integrated digital workflow with sustainably sourced and recycled materials were showcased in the AM Experience Zone.

### INDUSTRY HIGHLIGHTS





[DNV](#) recently published a new edition of standards for the Additive Manufacturing of metallic parts. The standard involves the metal parts' qualification and production requirements for three new AM technologies. [Read more.](#)



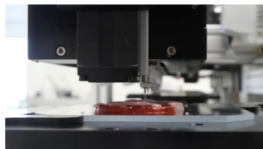
[Nikon](#) announced the successful public takeover offer and the acquisition of SLM Solutions and its subsidiaries, positioning itself as a major player in metal 3D printing. [Read more.](#)



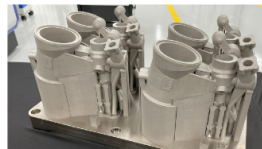
[Lockheed Martin](#) and [Sintavia](#) have announced a collaboration to progress the adoption of metal 3D printing technology in Lockheed's products. This collaboration will explore a number of AM technologies, including laser powder bed fusion (LPBF), electron beam-directed energy deposition and friction stir AM. [Read more.](#)



[IMCRC](#) (Innovative Manufacturing Cooperative Research Center) and [AML3D](#) have successfully commercialised a novel high-strength aluminium wire feedstock for welding and 3D printing. This wire, when combined with WAAM technology, has the potential to enable new applications in the shipbuilding and aviation industry. [Read more.](#)



Researchers at [Steakholder Foods](#) and the [National University of Singapore](#) (NUS) have announced significant advances in their respective food 3D bioprinting initiatives. With efforts to reduce livestock farming gaining traction, research and development in cultured meat is gaining significant traction. [Read more.](#)



[Collins Aerospace](#) has launched a new additive manufacturing centre in Monroe, North California to centralise their AM manufacturing, research and standards development. [Read more.](#) Outside of the US, Collins Aerospace had previously launched its [Singapore Innovation Hub](#) in 2020.



[NASA](#) has announced the successful development and test of the first full-scale 3D printed rotating detonation rocket engine (RDRE) using powder bed fusion additive manufacturing and NASA's own copper-alloy developed for space applications. The engine is able to operate under extreme conditions for longer durations without overheating. [Read more.](#)



Petroleum Development Oman (PDO), Oman's national oil company, has partnered with the France/Singapore based startup [Spare Parts 3D](#) (SP3D), to assess the 3D printability of 150,000 unique spare parts. Within a period of six months, the team processed 150,000 coded spare parts and identified the parts that were technically 3D printable and that made business sense to build an adoption matrix table. [Read more.](#)

## UPCOMING EVENTS

# 3D-Printed Tissues and Bioprinting

13 April 2023 | 3:00pm - 6:00pm (Singapore Time / UST +8)  
32 Carpenter Street, Singapore 059911

Co-organised by:



### 3D-Printed Tissues and Bioprinting – The Next Frontier

Advanced manufacturing technologies, such as 3D bioprinting, have created new possibilities for humanity in patient-specific healthcare therapeutic solutions through tissue engineering, and in cellular agriculture.

The discussion will start with presentations on the latest progress in 3D bioprinting and various applications. This will be followed by a panel discussion on the technological gaps and challenges, as well as the pathways to scale its application in regenerative medicine and cell-cultivated proteins.

**Date:** 13 April 2023

**Time:** 3:00pm – 6:00pm

**Venue:** SGInnovate, 32 Carpenter Street, Singapore 059911

[CLICK TO RESERVE YOUR SPOT TODAY](#)



BuildTech Asia is the region's premiere B2B trade event on Building and Construction Technology. In this year's edition, NAMIC's CEO, Dr Ho Chaw Sing, will be speaking about the role of 3D printing in the future of sustainable construction. [Learn more.](#)

**Date:** 28 to 30 March 2023

**Venue:** Singapore Expo



Additive Manufacturing Users Group (AMUG) Conference brings together engineers, designers, managers, and educators from around the world to share expertise, best practices, challenges, and application developments in additive manufacturing. [Learn more.](#)

**Date:** 19 to 23 March 2023

**Venue:** Hilton Chicago Hotel, Chicago, Illinois, US



Future Mobility Asia is a comprehensive showcase of all future clean mobility concepts, solutions, technologies and innovations in Thailand. This year's edition includes a panel discussion on AM for automotive industry. [Learn more.](#)

**Date:** 17 to 19 May 2023

**Venue:** Queen Sirikit National Convention Center, BKK, Thailand



3D Printing (DED) for Advance Manufacturing Seminar will share the latest development in direct energy deposition solutions for industrial advanced manufacturing applications. [Reserve your spot.](#)

**Date:** 31 March 2023

**Time:** 1:30 pm to 5 pm

**Venue:** Nanyang Polytechnic, Singapore



RAPID + TCT is North America's largest and most influential additive manufacturing event, providing everything you need to know about the latest 3D printing technologies in one place. [Learn more.](#)

**Date:** 2 to 4 May 2023

**Venue:** McCormick Place — West Building, Chicago, IL



TCT 3Sixty is the UK's definitive and most influential 3D printing and additive manufacturing event. A free must-attend event for designers, engineers and buyers looking to evaluate, adopt or optimise 3D printing and additive manufacturing within their business. [Learn more.](#)

**Date:** 7 & 8 June 2023

**Venue:** NEC, Birmingham, UK

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