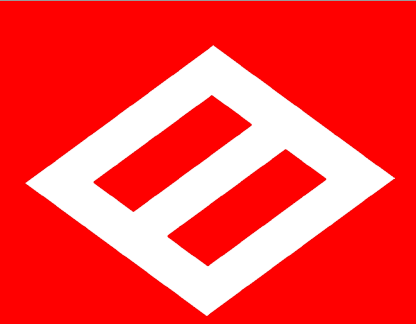




THE GRIFFIN EMERGING TECHNOLOGY STARBURST 2021 EDITION. WHAT WILL YOU #DISRUPT?

STARBURST KEY

1 Est. Technology Maturation Date

▲ General Purpose Technology

WELCOME FROM @311INSTITUTE

The 311 Institute is a global Futures and Deep Futures advisory, strategy, and innovation firm, and our mission to democratise access to the future and help people realise their exponential potential.

Now in its sixth year the Griffin Emerging Technology Starburst is used by organisations all around the world to help them keep track of the latest emerging technology trends and envision the future of their companies and products.

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LOOKING BACK AT 2020

In 2020 there were fewer notable world firsts than in 2019 which I attribute to the fact that much of the worlds investment and R&D flows were re-aligned to help the world conquer the debilitating global pandemic, COVID-19. There was also a marked decrease, of approximately 40 percent year on year, in the number of new revolutionary exponential technologies that emerged and this is reflected in the 2021 Starburst that saw the lowest number of new entries since my records began. Unsurprisingly the Biotech and Intelligence fields saw the largest gains, and notable breakthroughs included: Advanced DeepFakes • First 3D printed mini human heart • First 6G satellite • First AR Smart Contact Lenses • First artificial living cells • First Bio-Synthetic network • First Cancer vaccine • First hypersonic weapons deployment • First living programmable robots • First in vivo 3D Bio-Printing robot • First in vivo gene editing • First pilotless aircraft • First interactive procedural VR game • First protein folding AI • First room temperature superconductor • First virtual food • Reversal of human ageing ... and MANY more.

INTRODUCING THE 2021 STARBURST

In this year's Starburst, which extends to 2070 and displays 167 of the world's most promising emerging technologies, each with an addressable market value of at least \$500 Billion spread across 13 categories, I promoted 17 new emerging technologies and demoted 17.

In 2021, and with the global pandemic still omni-present, I expect to see an increase in the number of new healthcare technology breakthroughs, especially in the fields of Advanced Manufacturing, Biotech, Intelligence, and User Interfaces, as well as a good tailwind for technologies that help create a more sustainable future society.

MORE RESOURCES ...

Click or scan the QR code to download our Starbursts FREE companion EXPONENTIAL TECHNOLOGY CODEX to explore these technologies in more detail, and get access to thousands of articles, keynotes, podcasts, reports, and videos.

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