

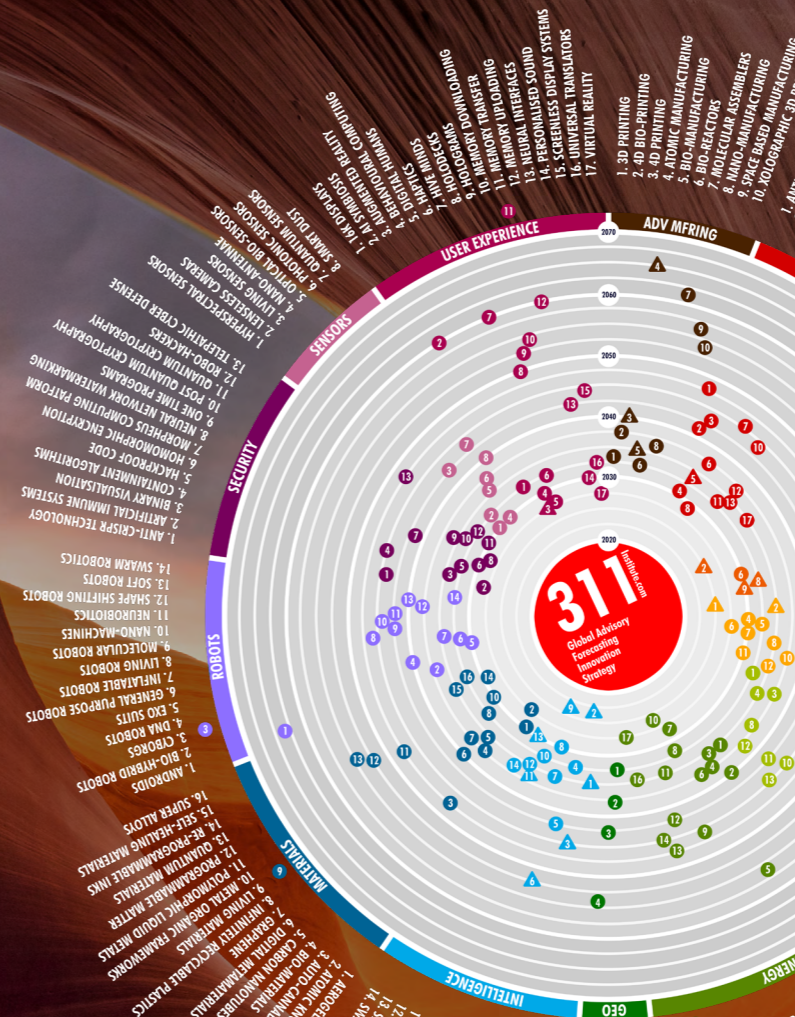
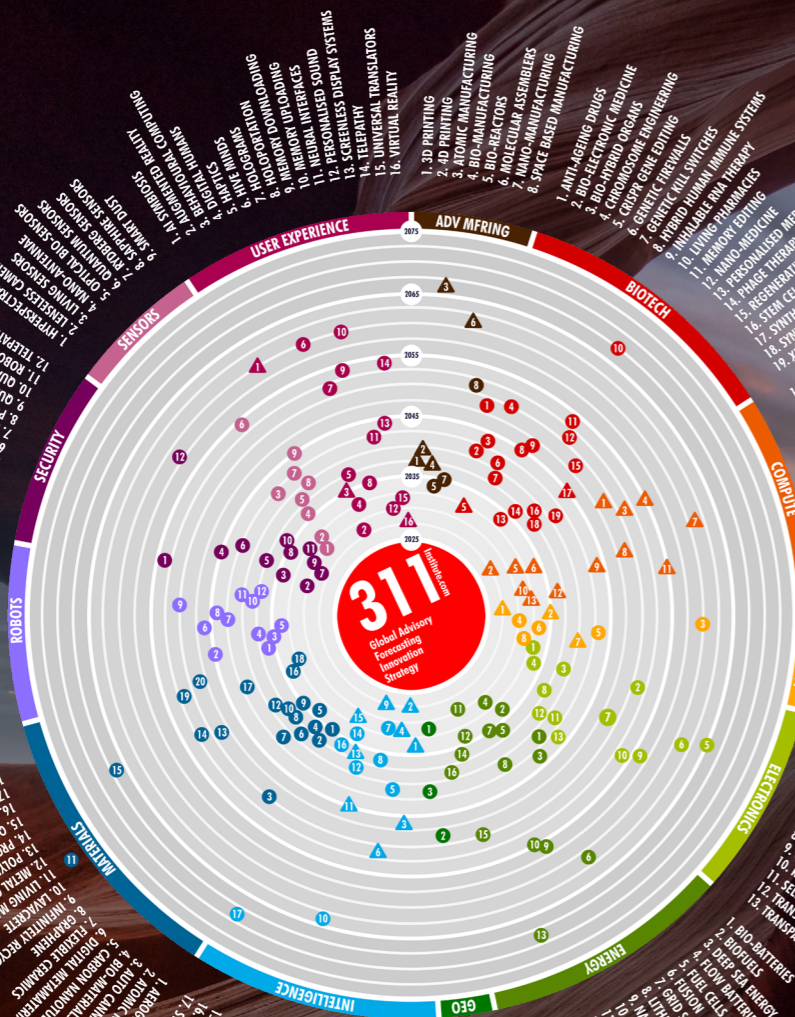


THE GRIFFIN EMERGING TECHNOLOGY STARBURST 2023 EDITION. WHAT WILL YOU #DISRUPT?

2023 STARBURST

2022 STARBURST

VS



- 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 eighth 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.

LOOKING BACK AT 2022

In 2022 there was an up tick in notable world firsts compared to 2021 which as the global pandemic fades wasn't unexpected as investment and R&D flows started returning to pre pandemic norms. Therefore, as expected, I saw an increase in the number of new emerging technologies which were double the number spotted in 2021. Biotech, Compute, Energy, Intelligence, and Materials saw the largest gains, and notable breakthroughs included: 100% effective personalised cancer therapies • AI designs new chemical weapons and simulates all known proteins • AI redistributes wealth better than politicians • AI generated content and Digital Humans move mainstream • Chromosome Engineering accelerates biological evolution millions of years • First decentralised social network launches • First lab grown blood cells • First Mechanical AI • First stress measuring wearable • First light based blood test • First tunnel dug by autonomous swarm robots • First telekinetic and telepathic materials • Google staffer claims AI is sentient • Lab grown meat gains FDA approval • Lawyers drop NFTs to serve anonymous criminals • Human mini-brains beat machine AI in tests • Molecular computers break records ... and MANY more.

INTRODUCING THE 2022 STARBURST

In this year's Starburst, which extends to 2075 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 31 new emerging technologies and demoted 31.

In 2023, with the global pandemic receding but against the backdrop of multiple global crises including geopolitical tensions, inflation, recession, and war, I expect to see R&D flows into niche non-military research falter and see increases in the number of Advanced Manufacturing, Biotech, Compute, Connectivity, and Materials breakthroughs.

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.

EXPLORE MORE. Click or scan me to learn more about the future.

