

# Futurism in Shipping, Disruption?

5th Athens Triennial, Costas Grammenos Centre

FinTech.Lab



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# Disruptive Technologies

APIs (Application Programming Interfaces),  
Structured Big Data,  
Platforms,  
IoT (Internet of Things),  
**3D Printers,**  
Robotics,  
**Autonomous Transport,**  
**AI / Machine Learning / Deep Learning / ANN / Generative,**  
NLP (Natural Language Processing),  
VR / AR / MR (Virtual – Augmented – Mixed Reality),  
Digital ID,  
Cybersecurity,  
RegTech,  
Blockchain / DLT,  
Smart Contracts

# Disruptive Technologies

## 3D Printing – Decentralized Additive Production



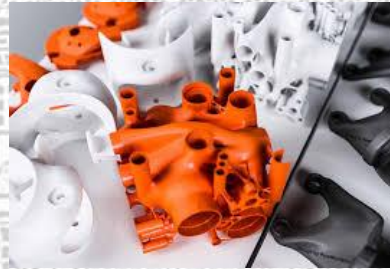
Customization, Inventory, Speed, Cost



Maintenance



Predictive maintenance  
Probe head for taking gas samples



Xponential Works



Al Seer Marine, largest  
3D printed boat (11m)



Cargo?  
No industry will be spared



3d Printed Parts  
Self built Dam

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# Disruptive Technologies

## Autonomous Transport



5 levels of autonomy



Delphi Forum



Fixed route, 217mph



Yara Birkeland, Norway

# Disruptive Technologies

## Generative Technologies – Superpowered AI



Services

Software within Software



Einstein Shipbroker  
Real-time Data Analysis



Bell Helicopters  
Simulation Manufacturing



Simulation Precision



New Ship Designs



Maintenance  
Understandable language for diverse teams

## Disruptive Technologies

### Generative Technologies – Maritime Education – Essay writing disrupted

- Smartcare: Innovation for Healthcare
- NetworkNurture VC: Innovation for VCs
- NauticVR: Maritime Training with VR
- FurnishFlex: 3D Printing, VR Showrooms, AI Chatbots
- LLMs for SME Consulting in Emerging Markets
- GlamourGlide: Smart closet
- GetIt: On-demand Deliveries for E-commerce
- Digital Compliance Platform for Shipping
- Healthify: Healthcare Payments and Insurance
- RegGuard: Regtech in Insurance
- X3: Immersive Football
- EEL: Efficient Electricity Linkage
- NavToken: Blockchain Ownership in Shipping
- AI Customer Service and Fraud Detection in Banking
- SpacePark: Smart Car Parking
- Digital Twins in Shipping

# Disruptive Technologies

# When is the Future?

# AGI 2029



Ray Kurzweil

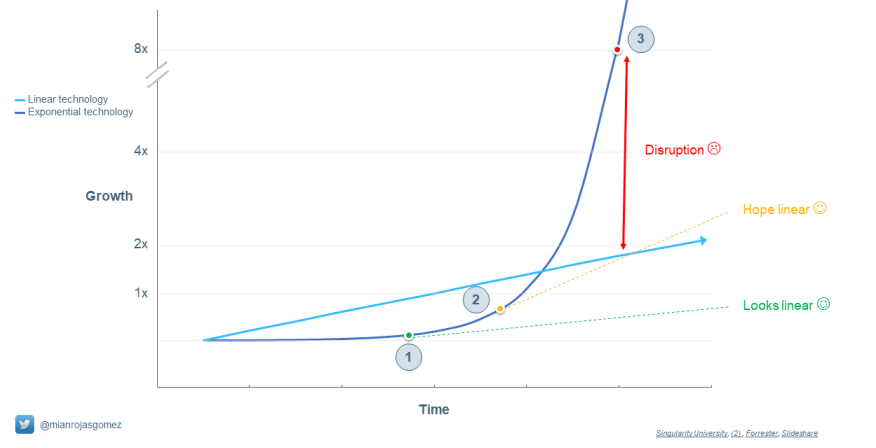
Source: The Economist



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- Until November 2023, 20k stable inorganic compounds
- Google GNOME AI discovered another 401k, overnight
- Manufacturing, Healthcare, Energy
- AI chips design next generation chips
- November 2023, fastest chip could do 48bn calculations per second
- NVIDIA's B200 does 500bn, cost \$40k (cape tce)

### Exponential disruptions are difficult to spot...



Thank you!



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