Dear Sir/Madam,

Please find attached my submission to Ireland 2040 Our Plan.

The summary of my plan is as follows:

The technology for Smart Cities, the Internet of Everything, Gigabit Internet and 4.5/5G Communications will be pervasive in Ireland by 2020. Most Industry Sectors will undergo extreme Digital Transformation

The National Broadband Program will transform Rural Ireland bringing Gigabit Broadband, Telepresence, Digital Transformation and Innovation to Small Towns and Villages in Ireland. Ludgate Hub is an example of what can be achieved.

An Irish Company WeLink will solve the UK Social Housing problem by investing £2.5 Billion in five factories to produce High Quality, Energy Efficient, Passive Housing by 2025. Why not Ireland?

The Largest Open Cast Mine in Europe, the Great Midland Bogs would make an ideal opportunity for Ireland to develop a Futuristic Sustainable Ecological Smart City and Habitat

Ireland have a great heritage of abandoned monastic settlements which are generally used today to house livestock or are falling into ruin. The Golden Age of Ireland can be restored by restoring these to Eco Villages.

Ireland is the International HQ for the leading US technology companies and is increasing the presence of Global Chinese technology companies. Ireland could be a showcase for US, EU and Chinese Platform Based Business Models.

One Belt One Road (OBOR) is the worlds largest economic platform with anticipated investment estimated from $4 Trillion – $8 Trillion. Ireland has a potential role to play in OBOR as a Multimodal Hub connecting Eurasia to the USA.

The Institute of Chinese Studies in UCD is a unique platform for the study of the Chinese Century

The next five years will see the rapid evolution of technology in areas such as 5G, IoT and AI. China and the EU are leading the way and this is a potential area of cooperation for Ireland and China

The Technology Singularity will have a profound effect on the Human Race over the next 30 years bringing existential challenges and opportunities. Ireland is well placed to benefit from the Technology Singularity.

Best Regards,

Gerard Corcoran

Ireland 2040

Executive Summary

1. The technology for Smart Cities, the Internet of Everything, Gigabit Internet and 4.5/5G Communications will be pervasive in Ireland by 2020. Most Industry Sectors will undergo extreme Digital Transformation

2. The National Broadband Program will transform Rural Ireland bringing Gigabit Broadband, Telepresence, Digital Transformation and Innovation to Small Towns and Villages in Ireland. Ludgate Hub is an example of what can be achieved.

3. An Irish Company WeLink will solve the UK Social Housing problem by investing £2.5 Billion in five factories to produce High Quality, Energy Efficient, Passive Housing by 2025. Why not Ireland?

4. The Largest Open Cast Mine in Europe, the Great Midland Bogs would make an ideal opportunity for Ireland to develop a Futuristic Sustainable Ecological Smart City and Habitat

5. Ireland have a great heritage of abandoned monastic settlements which are generally used today to house livestock or are falling into ruin. The Golden Age of Ireland can be restored by restoring these to Eco Villages.

6. Ireland is the International HQ for the leading US technology companies and is increasing the presence of Global Chinese technology companies. Ireland could be a showcase for US, EU and Chinese Platform Based Business Models.

7. One Belt One Road (OBOR) is the worlds largest economic platform with anticipated investment estimated from $4 Trillion – $8 Trillion. Ireland has a potential role to play in OBOR as a Multimodal Hub connecting Eurasia to the USA.

8. The Institute of Chinese Studies in UCD is a unique platform for the study of the Chinese Century

9. The next five years will see the rapid evolution of technology in areas such as 5G, IoT and AI. China and the EU are leading the way and this is a potential area of cooperation for Ireland and China

10. The Technology Singularity will have a profound effect on the Human Race over the next 30 years bringing existential challenges and opportunities. Ireland is well placed to benefit from the Technology Singularity.

Smart and Sustainable City, IoT, 5G, NBP

Ludgate Hub – Skibereen, A Model for Rural Ireland

EcoVillage – Recreate the Golden Age of Irish ecoSettlements
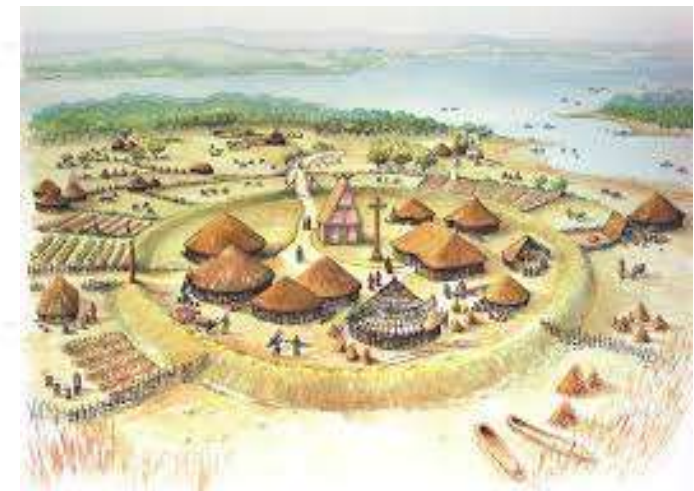
Global Technology Companies, USA, EU and Chinese based in Ireland

Name	Type	EU HQ	Mkt Cap $B	Revenu	MC/R
Apple Inc.	OTT	Ireland	627	215	2.92
Alphabet	OTT	Ireland	557	74	7.53
Microsoft Corporation	OTT	Ireland	504	85	5.93
Amazon.com, Inc.	OTT	Ireland	370	107	3.46
Facebook	OTT	Ireland	341	17	20.06
Alibaba	KA	China	223	16	13.94
Tencent	KA	China	222	16	13.88
China Mobile	KA	China	215	100	2.15
Intel Corporation	GP	Ireland	180	55	3.27
Intl. Business Machines…	GP	France	159	81	1.96
Oracle Corporation	GP	NL	159	37	4.30
Cisco Systems, Inc.	Com	NL	154	49	3.14
SAP AG (ADR)	GP	Germany	107	20	5.35
Siemens	GP	Germany	100	75	1.33
QUALCOMM, Inc.	Com	UK	99	25	3.96
Accenture	GP	Ireland	81	33	2.45
Deutsche Telekom AG	KA	Germany	75	70	1.07
Vodafone Group plc	KA	UK	66	41	1.61
Baidu	KA	China	57	10	5.70
EMC Corporation	Com	Ireland	57	7	8.14
Telefonica S.A. (ADR)	KA	Spain	47	50	0.94
BT Group plc (ADR)	KA	UK	46	18	2.56
Orange	KA	France	38	40	0.95
Yahoo! Inc.	OTT	Ireland	37	5	7.40
VMWare	Com	Ireland	33	6	5.50
eBay Inc.	OTT	Ireland	32	8	4.00
Nokia Corporation (ADR)	Com	Finland	29	23	1.26
LinkedIn	OTT	Ireland	26	3	8.67
Hewlett-Packard Company	Com	Switzerland	25	52	0.48
Ericsson	Com	Sweden	19	24	0.79
Telecom Italia S.p.A…	KA	Italy	18	21	0.86
Cap Gemini	GP	France	14	12	1.17
KPN	KA	NL	12	8	1.50
AtoS	GP	France	10	13	0.77
ALU	Com	France	10	14	0.71

Source: Google Finance

US MNC in Ireland)

1. Apple
2. Alphabet
3. Microsoft
4. Amazon
5. Facebook
6. Intel
7. IBM
8. Accenture
9. Dell
10. LinkedIn

China MNC

1. Alibaba
2. Tencent
3. China Mobile
4. Baidu
5. Huawei

UCD Confucius Institute for Ireland, The Chinese Century
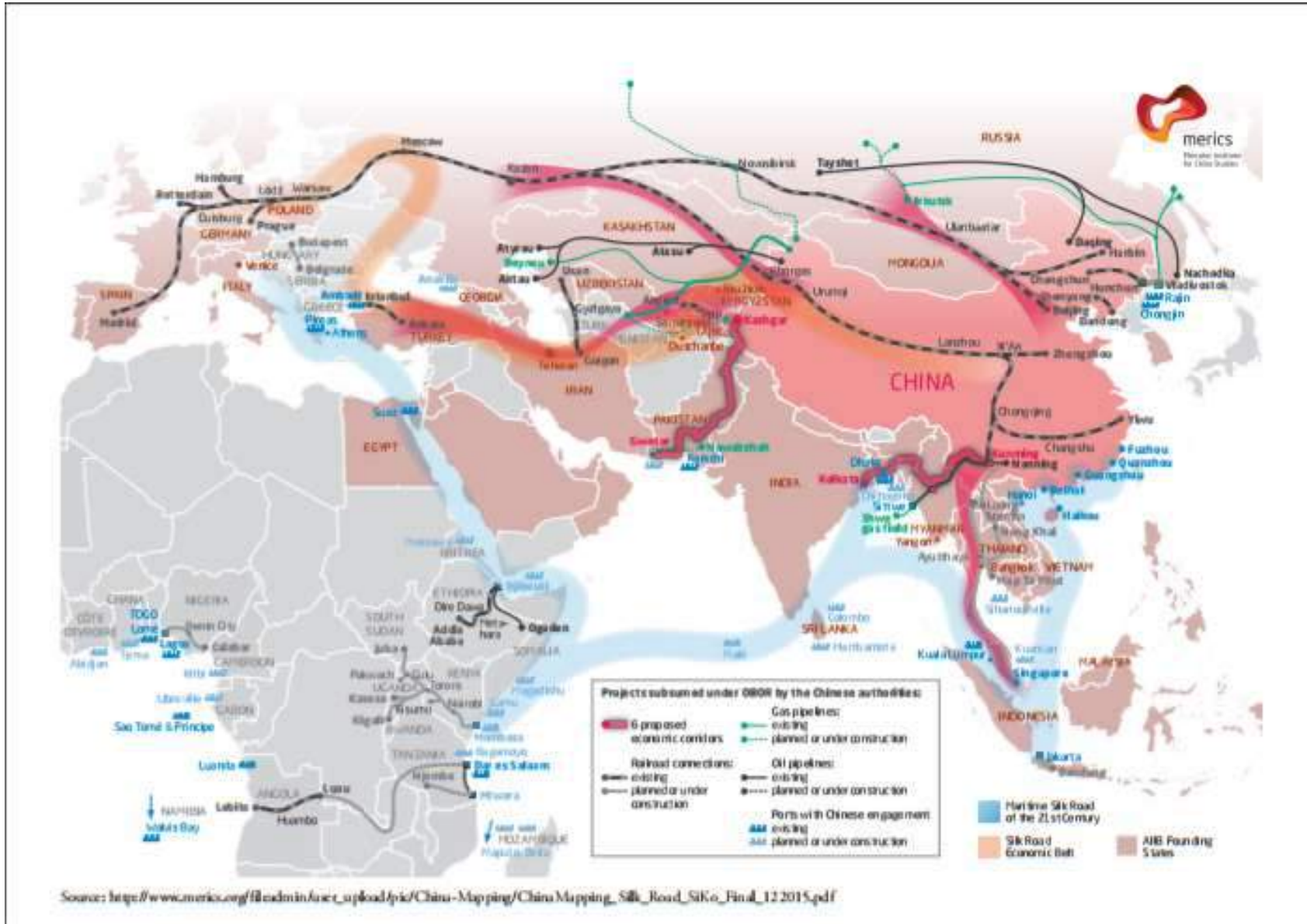

UCD Confucius Institute for Ireland

The vision of the UCD Confucius Institute is to become Ireland's pre-eminent learning centre and commercial connector for Sino-Irish business, culture and trade. As Ireland and China rapidly increase the scale and volume of its business exchange and as more Chinese people come to live in Ireland, the need for this national resource dedicated to the training and development of Chinese language skills, understanding of culture and to connecting business people and students has never been more urgent.

Established in 2006, in partnership with Renmin University of China – one of China's top 10 universities – the Institute has experienced an almost 700% demand growth for services in the last nine years. To respond to this need the Institute is moving to a dedicated, state-of-the-art building adjacent to the new lake on the University campus.

The new UCD Confucius Institute, designed by architects Robin Lee and Arthur Gibney, will feature classrooms, meeting rooms, language laboratories, conference rooms and performance spaces. It will also include a 'demonstration kitchen' for showcasing Chinese cuisines. The ground floor has been designed around a large, light-filled atrium for performances and exhibitions.

One Belt One Road (OBOR)

Source: http://www.merics.org/fileadmin/user_upload/pic/China-Mapping/ChinaMapping_Silk_Road_SiKo_Final_122015.pdf

1. One Belt One Road (OBOR)
2. Worlds largest economic platform
3. Silk Road Economic Belt (SREB)
4. Maritime Silk Road (MSR)
5. Digital Silk Road (DSR)
6. Connects China to Europe
7. 60 Countries
8. Combined GDP $21 Trillion
9. 65% of worlds population
10. 33% of Global GDP
11. 25% of goods transported
12. $4Trillion anticipated investment
13. $160 Billion projects funded
14. Asia Infrastructure Investment Bank (AIIB)
15. AAIB $100Billion Capital
16. Silk Road Fund (SRF)
17. SRF ($40B)
18. Potential Multimodal Hub in Ireland
19. Connect Eurasia to USA
20. CIIas Cultural Exchange

Digital Silk Road

China is the world's largest internet market and will take a leading role in the global development of 5G technology and the internet of things, a network of devices and other objects with software that allow them to exchange data. Europe should be the first to ally with China, allowing it to fast develop its own 5G and IoT capabilities and gain a large share of new markets. China and the EU could conduct joint research and technology trials.

"ONE BELT ONE ROAD" DEFINED

- "One Belt One Road" is a Chinese initiative to connect more than 60 countries (64 at present) with physical, commercial, cultural, and other links

- "One Belt" = the "Silk Road Economic Belt," a recreation of land-based trade routes from China through Central Asia and on to the Middle East and Europe. This is also called the "Modern Silk Road."

- "One Road" = the "21ˢᵗ Century Maritime Silk Road," also called the "Maritime Silk Road," which recreates and expand on traditional sea routes.

- Both "One Belt" and "One Road" were personally announced by China's President Xi Jinping during overseas trips.

- A related initiative the "Digital Silk Road," which attempts to foster international cooperation, cooperation in 5G, cloud computing, the Internet of Things, big data, e-commerce, digital investment, smart cities, and smart energy has received less attention

Team Finland Future Watch Report, January 2016

team

EU-China Smartcities

HUAWEI   inno apps   eyIF

HUAWEI EU-CHINA APP HACKATHON

We will push forward digitalization, informatization, exchange and collaboration of cyberspace between China and the European Union.

LU WEI,
DIRECTOR OF THE CYBERSPACE ADMINISTRATION OF CHINA

Futurism

Visit futurism.com
for a daily dose of the future

the
DAWN
of the
SINGULARITY

The following predictions were made by Ray Kurzweil
in his book The Singularity is Near.
Kurzweil, now the Director of Engineering at Google,
had made 147 predictions since the 1990's and has maintained
an astonishing 86% accuracy rate.

The Technology Singularity 2019 - 2029

1. Internet of Everything
2. 5G Networks
3. Smart Cities
4. Artificial Intelligence
5. Nanopore Technology and Graphene
6. Computer brainpower exceeds Human brainpower
7. Complex Artificial Intelligence
8. Autonomous Vehicles
9. Automatic Language Translation
10. Human AI Integration

The Technology Singularity 2029 - 2039
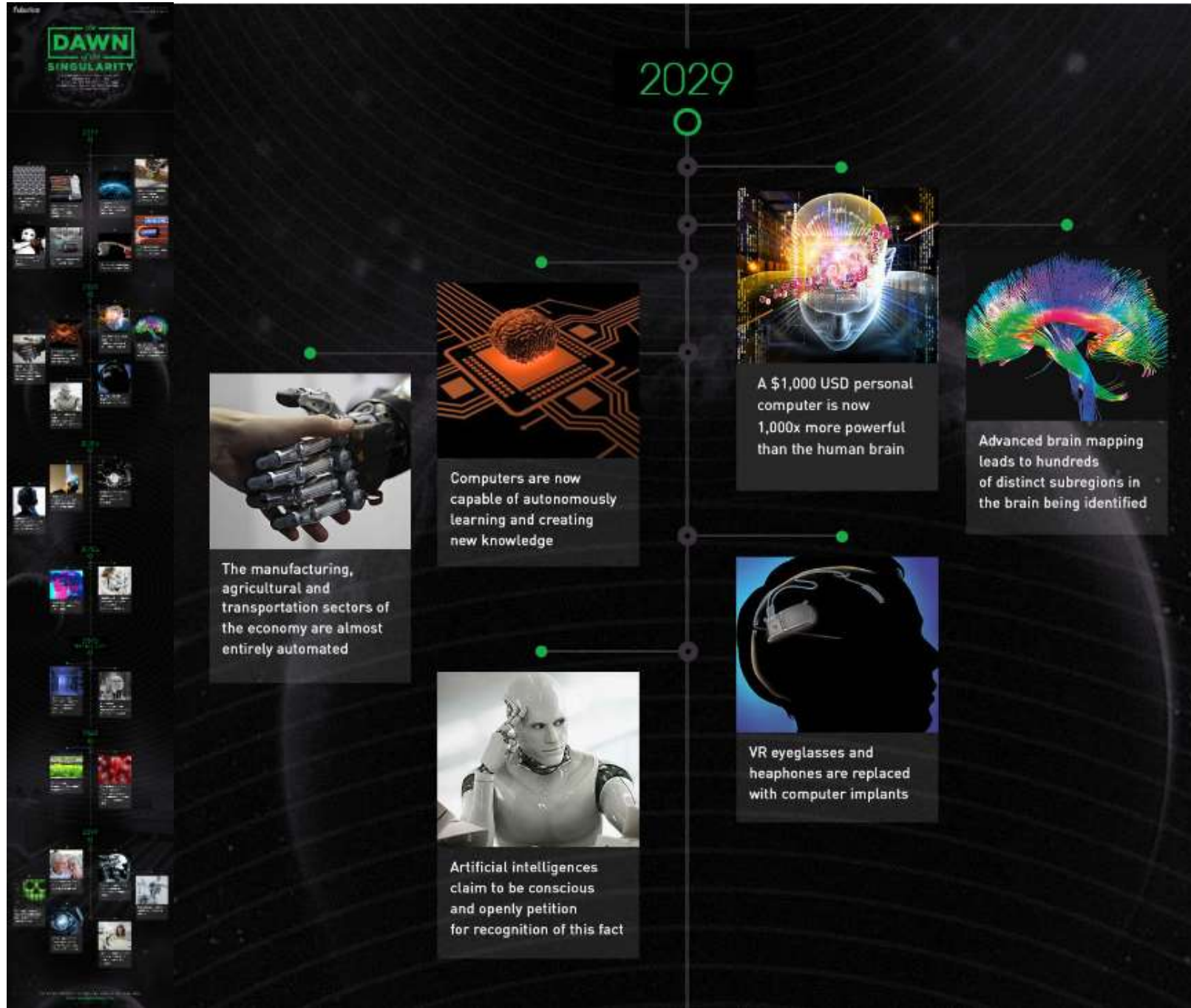
1. $1000 Supercomputer
2. Advanced Brain Mapping
3. Sentinant Computers
4. Agriculture, Manufacturig, Transportation, Automated
5. Implanted VR Eyeglasses
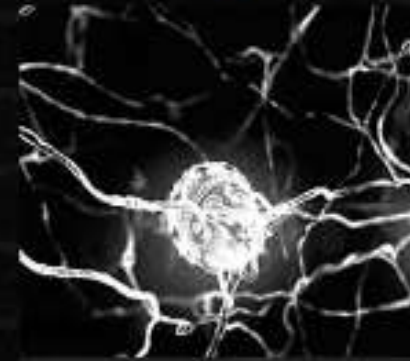6. Conscious AI

The Technology Singularity 2029 - 2039

2030s

Nanomachines are directly inserted into the brain to control incoming and outgoing signals

Mind uploading becomes successful and perfected and humans become software based

Brain nanobots are now capable of eliciting emotional responses from users

1. Brain Nanobots
2. Nanomachines
3. Mind Uploading

2040s

People spend most of their time in full-immersion virtual reality

Nonbiological intelligence is now billions of times more capable than biological intelligence

1. Nonbiological Intelligence is one billion times more capable than biological intelligence
2. Full Immersion Virtual Reality

2045
THE SINGULARITY

$1000 now buys a computer a billion times more intelligence than every human being combined

AI surpasses human beings as the smartest and most capable life forms on the planet

1. $1000 now buys a computer a billion times more intelligent than every human being combined
2. AI surpasses human beings as the smartest and most capable life forms on the planet
3. The Technology Singularity is reached

Conclusions and Recommendations

1. Take a leadership position in deployment of IoT, AI, NBP and 5G.

2. Develop a World Class Sustainable Ecological Smart City in the Midlands.

3. Restore the Golden Age of Irish Monastic Settlements and create Sustainable EcoVillages.

4. The 21st Century is the Chinese Century, Invest in the Institute of Chinese Studies.

5. Participate in the One Belt, One Road Project and make Ireland a Hub connecting Eurasia to the USA.

6. Leverage US, EU and Chinese Technology in the Digital Silk Road.

7. Understand the implications of the Technology Singularity in the context of the 2040 Plan.

8. Position Ireland to Benefit from the convergence of Information Technology, Biotechnology and Artificial Intelligence, the Technology Singularity.