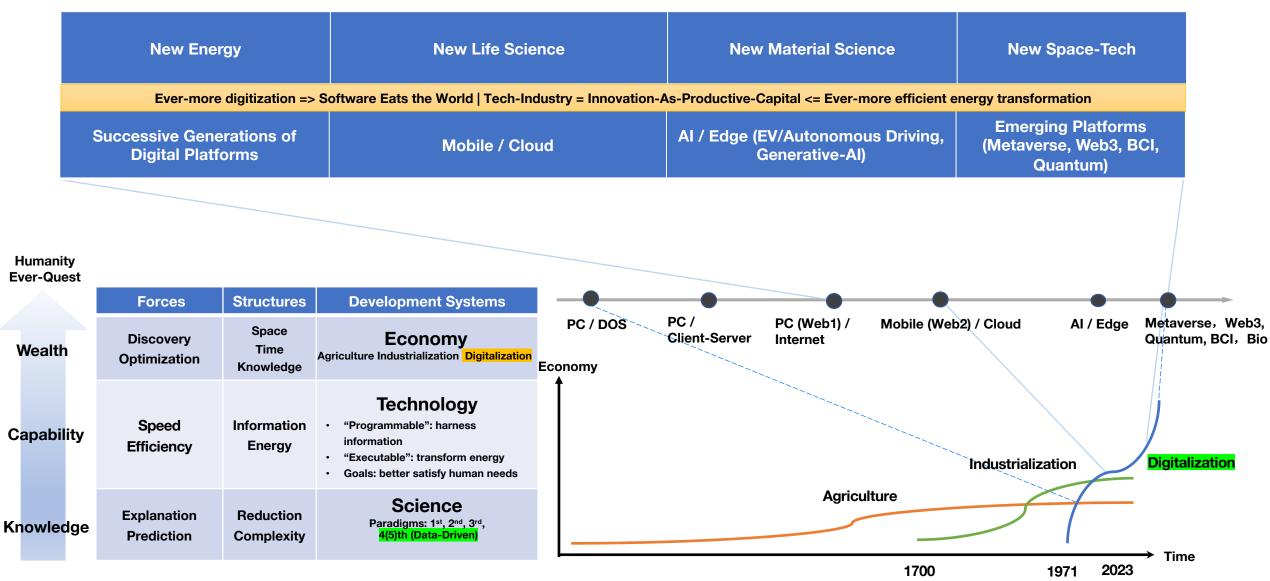
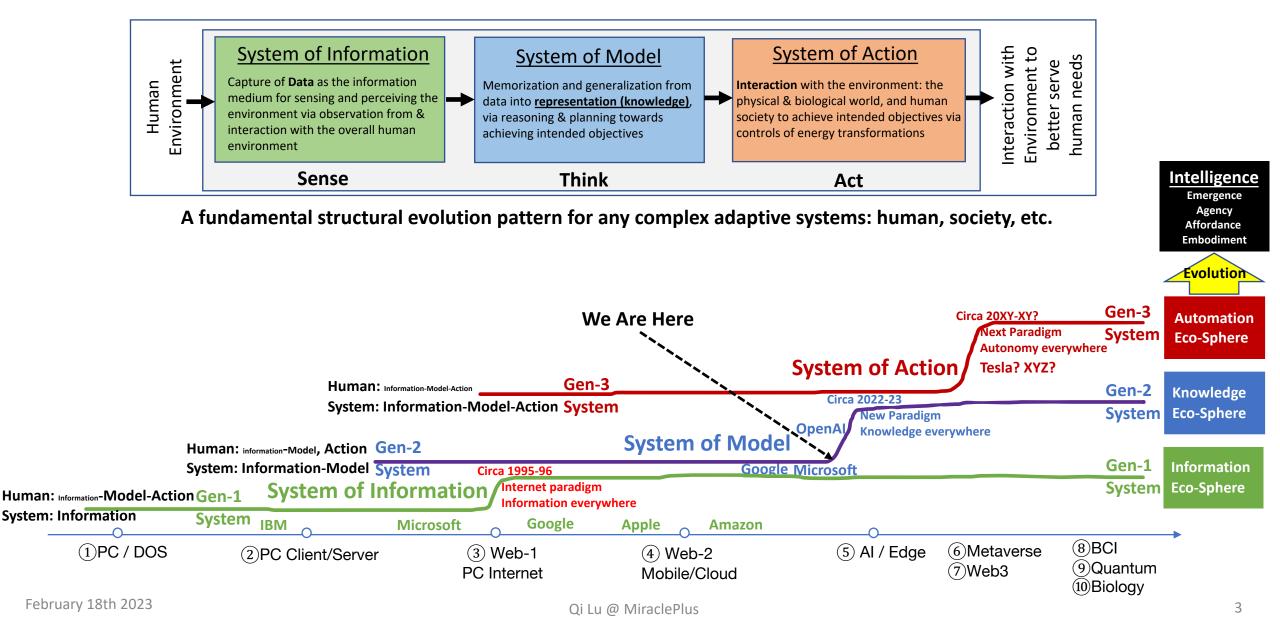
Riding the Efficient Frontier of Technology Diffusion Tidal Waves

MiraclePlus @ Silicon Valley February 18th 2023

The Efficient Frontier: Technology Diffusion Tidal Waves



The Intrinsic Trilogy of Digitization Diffusion Paradigms



The Arrival and Unfolding of A New Paradigm

Reached inflection point

Foundation model encapsulates world's knowledge

- Wide enough: everyone can use
- Deep enough: most tasks
- Useful enough: NL / code alignment
- Expansive enough: domain expansive
- Cheap enough: over a cost threshold

- NL is a key breakthrough
 - The Special latent space
 - NLP never works without knowledge
 - · Essential bridge between human & world
 - Sustained avenue of alignment
 - Safety and societal co-evolution

The Engine Of Progress

- Expansive model architecture
- Effective-enough computation
- Sufficient tokens & tokenization
- Gradual scaling parameters
- Evolvable alignment (esp. NL)
- Extensible task-domain expansion

Base: Transformer
Operate: Prompt/Finetune/ICL
Expand: Emergence/Extensibility

- Progress flywheel starts spinning
 - Capital investment threshold
 - Biz models and future profits viable enough
 - · Computation, infrastructure, toolchain
 - New platforms & business eco-systems in-motion
 - New workloads / apps & services / devices
 - Safety / societal acceptance / co-evolution
 - Startups / enterprises start making profits
 - Demonstrable societal benefits
- Further sustained technology progress
 - Advancing core R&D agenda
 - Model: sparse expert, recurrence, causality, etc.
 - Model regime: neural-symbolic
 - More modalities, token space and tokenization
 - Essential engineering development
 - Computation, infrastructure, toolchain
 - Label data methodology and tools

Macro Opportunity Landscape (Long Term)

Massive new economic paradigm

- Cost of knowledge: creation & access
- Systematic shift: marginal-cost to fixed-cost
- Broad re-shaping of global economies
- Significant elevation of knowledge-driven industries

• Deep impact on every profession

- · All aspects of knowledge & cognitive endeavor
- All tasks involving cognition and/or motor-sensory
- Human professional + co-pilot(s)
- Human professional + auto-pilot (s)
- Human professional + pilots-team
- Human & co-pilot(s) + auto-pilots as future organization

Deep impact on every industry

- Restructure every sector: marginal-cost to fixed-cost
- [\$X/hour (Human) \$Y/hour (HW + SW & Scaling)] x Volume = Value
- Developers (Code), Designers (2D, 3D, Video), Researchers (Paper/Data)
- Sales, Marketing, HR, Finance, Legal, all vertical areas
- Elevate every sector: improve and automate domain-models
- Science, Education, Healthcare, Manufacturing, Commerce
- **Disruption to sector**: platforms, products; new winners/losers

Deep impact on nation/state/region

- Culture and identify
- Defense and economy

Deep impact on human endeavor

- Learning and education
- Research and discovery
- Informative dissemination & social discourse & civic evolution

Opportunity Landscape via Micro Lens: Digital Platform Structures

The Anatomy of Digital Platforms

Front End			
Experience Canvas	Video/Audio;	Space, World, Human(Avatar) Bio/Protein/++	Perception Stimulation
Experience Container	IPage, Frame, Text	3D: Embodied Metaverse XR-reality	Embedded:(BCI) Brain Computer Interface
Device & Equipment	Chip+Module+OS: PC, Mobile Phone, Watch, Glasses, Headset, Wearable, Implantable, Robot, Car, Place, Equipment (Bio Medical, etc.)		

	Back End			
Capability Cloud, Edge, Web3(Trust), Model(Knowledge)				
Infrastructure	Communication Network, Data Center, Data Stack, Distributed System, Blockchain			
Device & Equipment	Chip+Module+OS: Server, Switch, Data Center, Satellite Constellation			

Digitization Development Foundation

Computing System	Alpha Numeric Systems	Superimposed Vector Systems	Quantum Computing Systems
Computing Substrate	Silicon-Based		
	Carbon-Based (Bio	o Computing)	Quantum (electrons, photons, ions, atoms)

Development System & Environment: Toolchain, Published Research, Open-Source Software, Dataset, Design

(1)PC/DOS

(2)PC Client/Server

③Web-1 PC Internet

4)Web-2 Mobile/Cloud

5 Artificial Intelligence

6 Metaverse 7 Web3

8 BCI9 Quantum

(9)Quantum (10)Biology

Opportunity Landscape via Micro Lens: Gen-1 System Areas

The Anatomy of Digital Platforms

Front End			
Experience Canvas	Document, Image, Video/Audio; Chat(Text), Code	Space, World, Human(Avatar) Bio/Protein/++	Perception Stimulation
Experience Container	2D:Viewed/Listened Page, Frame, Text	3D: Embodied Metaverse XR-reality	Embedded:(BCI) Brain Computer Interface
Device & Equipment	Chip+Module+OS: PC, Mobile Phone, Watch, Glasses, Headset, Wearable, Implantable, Robot, Car, Place, Equipment (Bio Medical, etc.)		

Back End			
Capability Provision	<mark>Cloud, Edge</mark> , Web3(Trust), Model(Knowledge)		
Infrastructure	Communication Network, Data Center, Data Stack, Distributed System, Blockchain		
Device & Equipment	Chip+Module+OS: Server, Switch, Data Center, Satellite Constellation		

Digitization Development Foundation

Computing System	Alpha Numeric Systems	Superimposed Vector Systems	Quantum Computing Systems
	Silicon-Based		
Computing Substrate	Carbon-Based (Bio	o Computing)	Quantum (electrons, photons, ions, atoms)

Development System & Environment: Toolchain, Published Research, Open-Source Software, Dataset, Design

(1)PC/DOS

(2)PC Client/Server

③Web-1 PC Internet

4 Web-2 Mobile/Cloud

(5) Artificial Intelligence

6 Metaverse 7 Web3

8BCI

9 Quantum10 Biology

Opportunity Landscape via Micro Lens: Gen-2 System Areas

The Anatomy of Digital Platforms

Front End			
Experience Canvas	Document, Image, Video/Audio; Chat(Text), Code	Space, World, Human(Avatar) Bio/Protein/++	Perception Stimulation
Experience Container	2D:Viewed/Listened Page, Frame, Text	3D: Embodied Metaverse XR-reality	Embedded:(BCI) Brain Computer Interface
Device & Equipment	Chip+Module+OS: PC, Mobile Phone, Watch, Glasses, Headset, Wearable, Implantable, Robot, Car, Place, Equipment (Bio Medical, etc.)		

Back End			
Capability Provision Cloud, Edge, Web3(Trust), Model(Knowledge)			
Infrastructure	Communication Network, Data Center, Data Stack, Distributed System, Blockchain		
Device & Equipment	Chip+Module+OS: Server, Switch, Data Center, Satellite Constellation		

Digitization Development Foundation

Computing System	Alpha Numeric Systems	Superimposed Vector Systems	Quantum Computing Systems
Computing Substrate	Silicon-I	Based	
	Carbon-Based (E	Bio Computing)	Quantum (electrons, photons, ions, atoms)

Development System & Environment: Toolchain, Published Research, Open-Source Software, Dataset, Design

(1)PC/DOS

(2)PC Client/Server

③Web-1 PC Internet 4 Web-2 Mobile/Cloud

5 ArtificialIntelligence

6 Metaverse 7 Web3

8 BCI9 Quantum

Opportunity Landscape via Micro Lens: Gen-3 System Areas

The Anatomy of Digital Platforms

Front End			
Experience Canvas	Document, Image, Video/Audio; Chat(Text), Code	Space, World, Human(Avatar) Bio/Protein/++	Perception Stimulation
Experience Container	2D:Viewed/Listened Page, Frame, Text	3D: Embodied Metaverse XR-reality	Embedded:(BCI) Brain Computer Interface
Device & Equipment	Headset, Wearable, Implantable, Robot, Car, Place,		

Back End			
Capability Provision	Cloud, Edge, Web3(Trust), Model(Knowledge)		
Infrastructure	Communication Network, Data Center, Data Stack, Distributed System, Blockchain		
Device & Equipment	Chip+Module+OS: Server, Switch, Data Center, Satellite Constellation		

Digitization Development Foundation

Computing System	Alpha Numeric Systems	Superimposed Vector Systems	Quantum Computing Systems
Computing Substrate	Silicon-E	Based	
	Carbon-Based (E	Bio Computing)	Quantum (electrons, photons, ions, atoms)

Development System & Environment: Toolchain, Published Research, Open-Source Software, Dataset, Design

(1)PC/DOS

(2)PC Client/Server

③Web-1 PC Internet 4 Web-2 Mobile/Cloud

5 Artificial Intelligence

6 Metaverse 7 Web3

8 BCI9 Quantum

Opportunity Landscape via Micro Lens: Gen-3++ System Areas

The Anatomy of Digital Platforms

	Front	End	
Experience Canvas	Document, Image, Video/Audio; Chat(Text), Code	Space, World, Human(Avatar) Bio/Protein/++	Perception Stimulation
Experience Container	2D:Viewed/Listened Page, Frame, Text	3D: Embodied Metaverse XR-reality	Embedded:(BCI) Brain Computer Interface
Device & Equipment	Chip+Module+OS: PHeadset, Wearable, Equipment (Bio Me	<mark>Implantable</mark> , Rob	

	Back End
Capability Provision	Cloud, Edge, Web3(Trust), Model(Knowledge)
Infrastructure	Communication Network, Data Center, Data Stack, Distributed System, Blockchain
Device & Equipment	Chip+Module+OS: Server, Switch, Data Center, Satellite Constellation

Digitization Development Foundation++

Computing System	Alpha Numeric Systems	Superimposed Vector Systems	Quantum Computing Systems
	Silicon-E	Based	
Computing Substrate	Carbon-Based (E	Bio Computing)	Quantum (electrons, photons, ions, atoms)

Development System & Environment++: Toolchain, Published Research, Open-Source Software, Dataset, Design

(1)PC/DOS

(2)PC Client/Server

③Web-1 PC Internet

4)Web-2 Mobile/Cloud

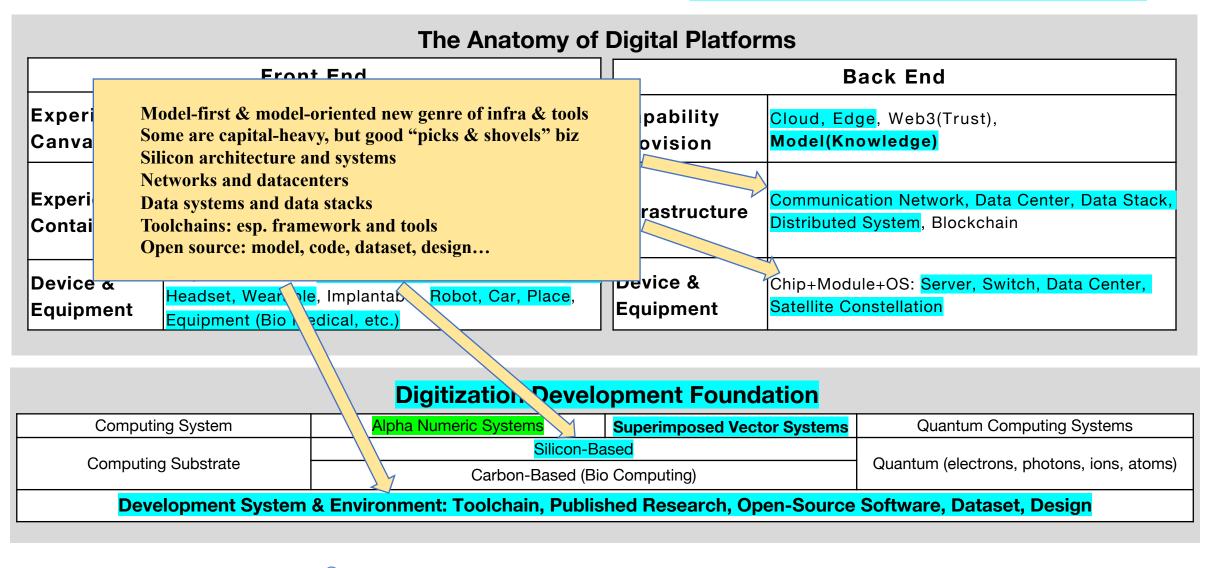
5 Artificial Intelligence

6 Metaverse 7 Web3

8 BCI9 Quantum

10 Biology

Opportunity Landscape via Micro Lens: Gen-2 System Areas (Cont.)



1)PC/DOS

(2)PC Client/Server

3Web-1 PC Internet

4)Web-2 Mobile/Cloud

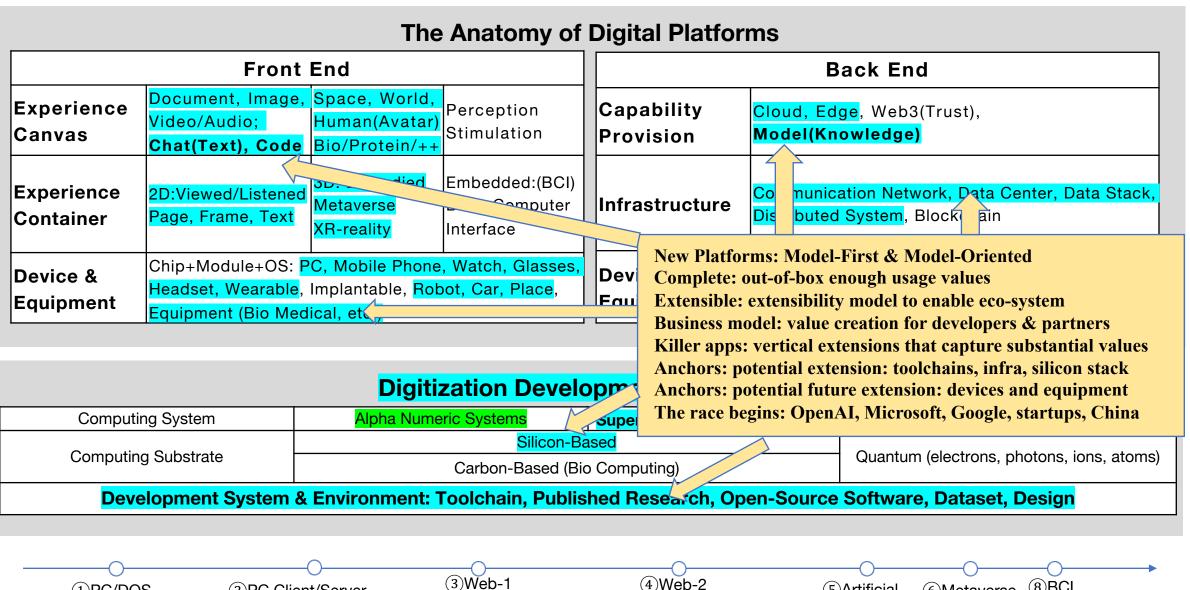
5 Artificial Intelligence

6 Metaverse 7 Web3

8 BCI9 Quantum

10 Biology

Opportunity Landscape via Micro Lens: Gen-2 System Areas (cont.)



Feb 18th 2023

(1)PC/DOS

PC Internet

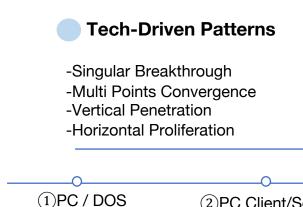
(2)PC Client/Server

(4)Web-2 Mobile/Cloud

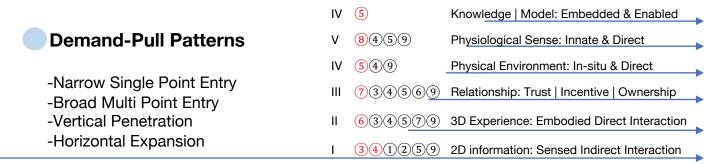
(5) Artificial Intelligence (6) Metaverse (7)Web3

(8)BCI (9)Quantum

Human Needs		(Consu	mer:	Hierarc	hy-of-	Need	s x De	mo Gr	oups :	x Time	Perio	d		Pro	oduce	r	Bu	siness	: Redı	uce Co	sts & l	Increa	se Yie	lds
Digital Means to Satisfy Human Needs	Commun ication	Social	Content	Gaming	Consum ption	Tourism	Fitness	Health- care	Educati on	Finance	Housing	Sleep	Informat ion & Knowle dge	Food & Beverag e	Developm ent	Design	Resea rch	Product ion	Supply Chain	Sales & Marketi ng	Custom er- Support	Employ ee Experie nce	Finance	Legal	General Adminst ration
l:Information (2D) Sensed Indirect Interaction																									
II:Experience (3D) Embodied Direct Interaction																									
III:Relationship (Abstract) Trust Incentive Ownership																									
IV: Physical External Env In-situ & Direct																									
V:Physiological Internal Sense Innate & Direct																									
IV: Knowledge Model Embedded & Enabled																									



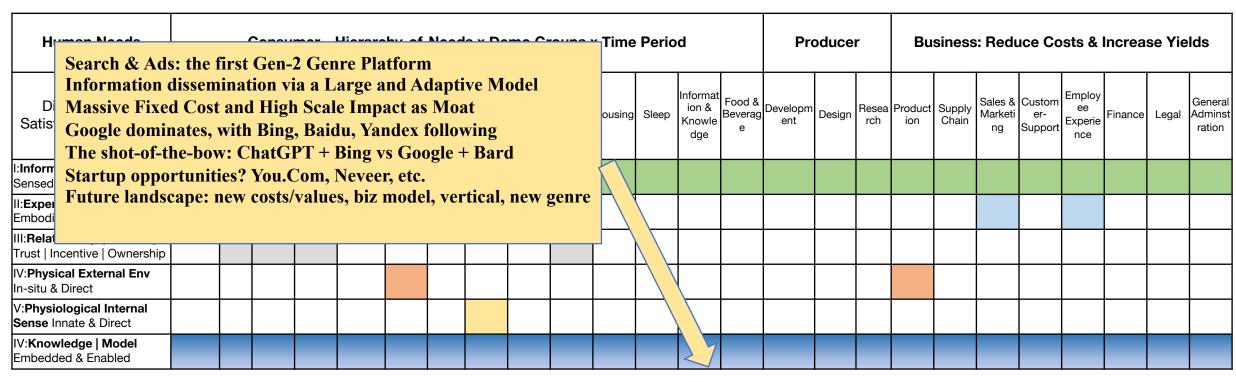
(2)PC Client/Server

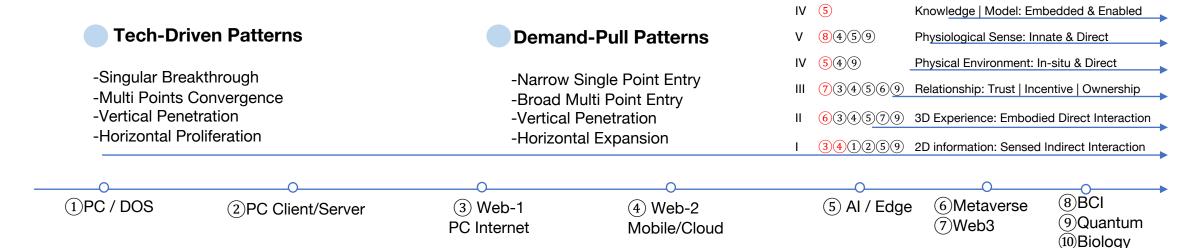


(3) Web-1 **PC** Internet (4) Web-2 Mobile/Cloud (5) Al / Edge

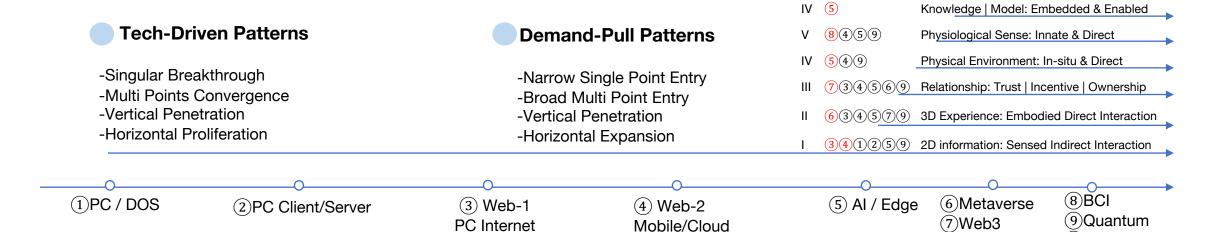
(6) Metaverse (7)Web3

(8)BCI (9)Quantum (10)Biology





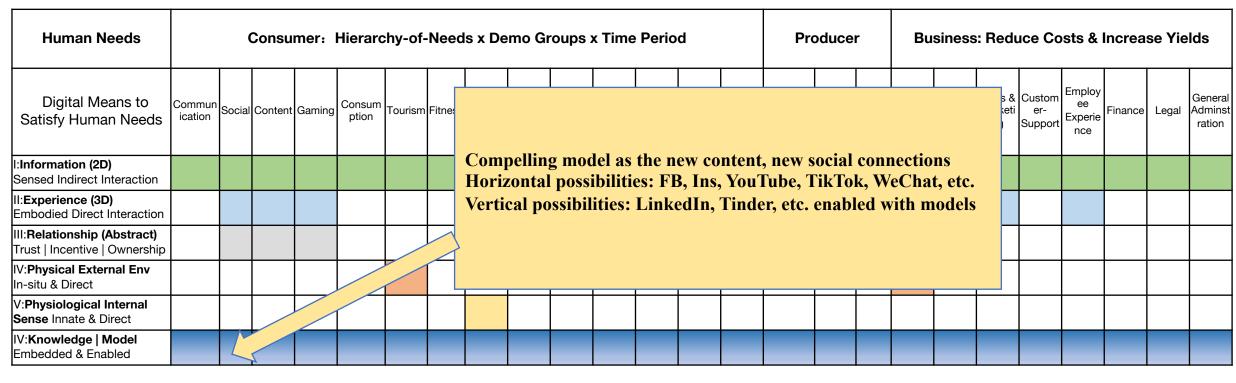
Human Needs		(Consu	mer:	Hierarc	hy-of-	-Needs	x Dei	mo Gr	oups :	x Time	e Perio	d		Pro	oduce	r	Bu	siness	s: Redu	ıce Co	sts &	Increa	se Yie	elds
Digital Means to Satisfy Human Needs	Commun ication	Social	Content	Gaming	Consum ption	Tourism									Developm					Sales & Marketi ng	Custom er- Support	Employ ee Experie nce	Finance	Legal	General Adminst ration
I:Information (2D) Sensed Indirect Interaction							Mod	ality:	text,	imag	ge, au	dio, v	ideo,	3D			.011 001	C11	8.						
II:Experience (3D) Embodied Direct Interaction												_	re cat etaph	_	es ifforda	nce									
III: Relationship (Abstract) Trust Incentive Ownership							_								n facto	rs									
IV: Physical External Env In-situ & Direct							Plati	orm j	possi	DIIIUE	es: exp	pansi	ve mo	ueis											
V:Physiological Internal Sense Innate & Direct				7/													I								
IV: Knowledge Model Embedded & Enabled																									

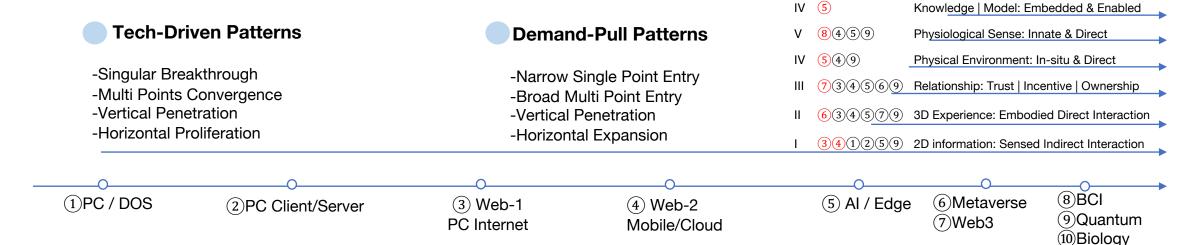


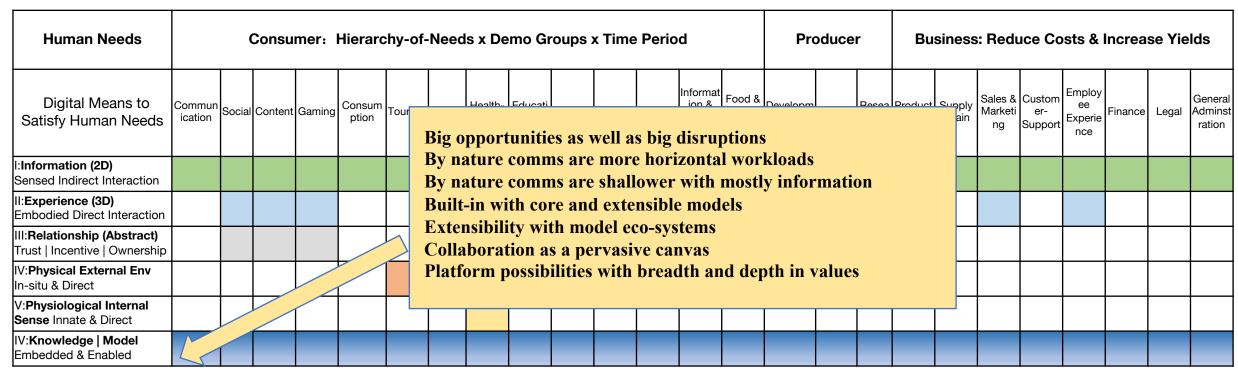
Human Needs		(Consu	mer: ł	Hierarc	hy-of-	Need	s x De	mo G	roups	x Time	Perio	d		Pr	oduce	r	Bu	ısiness	s: Redu	uce Co	osts & l	ncrea	se Yie	lds
Digital Means to Satisfy Human Needs	Commun ication	Social	Content	Gaming	Consum ption	Tourism	Fitness	Health- care	Educati on	Finance	Housing	Sleep	Informat ion & Knowle dge	Food & Beverag e	Developm ent	Design	Resea rch	Product ion	t Supply Chain	Marketi	Custom er- Support	Employ ee Experie nce	Finance	Legal	Ger Adr rat
l:Information (2D) Sensed Indirect Interaction																									
II:Experience (3D) Embodied Direct Interaction																									
III: Relationship (Abstract) Trust Incentive Ownership																									
IV: Physical External Env In-situ & Direct																									
V:Physiological Internal Sense Innate & Direct																									
IV: Knowledge Model Embedded & Enabled																									
-Singular I -Multi Poir -Vertical F	V:Physiological Internal Sense Innate & Direct V:Knowledge Model													te & Dire situ & Di ntive Ow	ct rect nership	on									
				<u> </u>								(—	
①PC / DOS		2	PC C	lient/Se	erver			3 We C Inte				4 We Mobile	eb-2 e/Clou	ıd		(5)	AI / E	dge	6M 7W	etaver eb3	se	8 BC9 Qu10 Bio	antum	l	4.

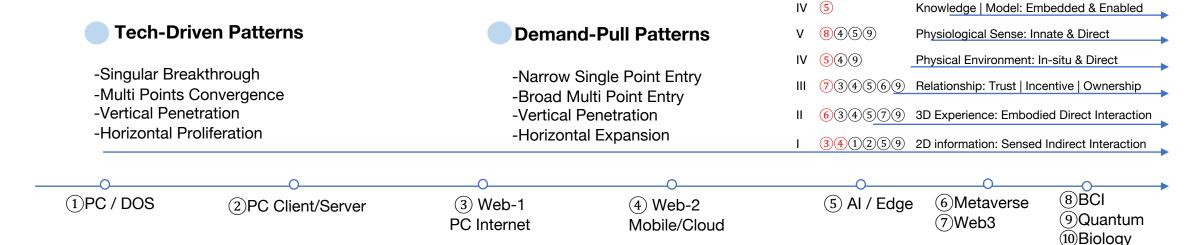
Human Needs		(Consu	mer:	Hierard	chy-of	-Need	s x De	emo G	roups	x Time	Perio	d		Pro	oduce	r	Bu	siness	: Redu	ıce Co	sts &	Increa	se Yie	elds
Digital Means to Satisfy Human Needs	Commun ication	Social	Content	Gaming	Consum ption	Tourism	ı Fitness	Health- care	Educati on	Finance	Housing	Sleep	Informat ion & Knowle dge	Food & Beverag e	Developm ent	Design	Resea rch	Product ion	Supply Chain	Marketi	Custom er- Support	Employ ee Experie nce	Finance	Legal	Gener Admin ratior
l:Information (2D) Sensed Indirect Interaction																									
II:Experience (3D) Embodied Direct Interaction				1																					
III:Relationship (Abstract) Trust Incentive Ownership																									
IV: Physical External Env In-situ & Direct																									
V: Physiological Internal Sense Innate & Direct																									
IV: Knowledge Model Embedded & Enabled																									
-Singular -Multi Poi -Vertical F -Horizonta	Hori Vert	izont	al po	ssibili	as the ities: I s: Lin	B, In	s, Yo	uTub	e, Tik	Tok,	WeCh	at, et			IV V IV III II	84 54 73 63	9 45 45 45	Pr Pr (3) (9) Re (7) (9) 31	nysiologi nysical E elationsh) Experio	cal Sen nvironm nip: Trus ence: Er	el: Embe se: Innat nent: In-s t Incen mbodied	e & Direstu & Ditestive Ov	ect rect vnership nteractio	on on	
				<u> </u>								(—	
①PC / DOS		2	PC C	lient/S	Server			3 We				4 We Mobile	eb-2 e/Clou	ıd		(5)	AI / E	dge	6 Me	etaver eb3	se	8 BC9 Qu10 Bio	antum	1	17

Feb 18th 2023



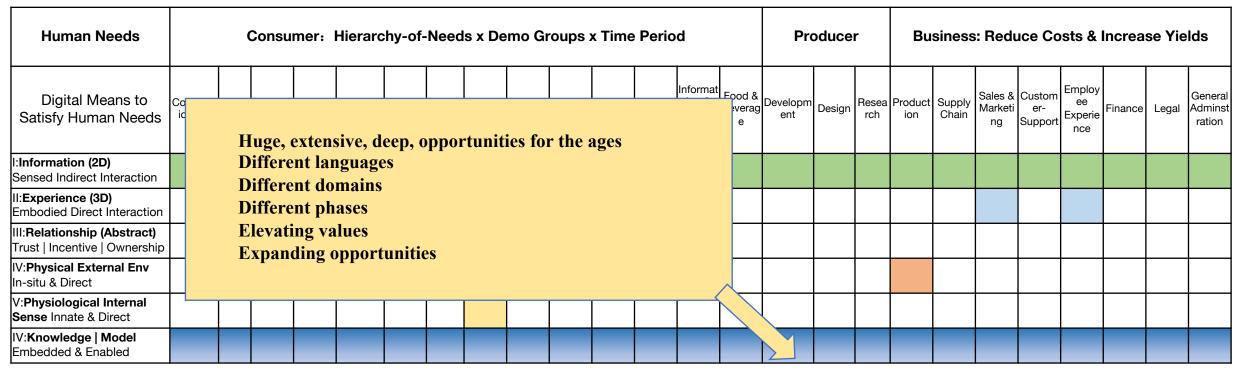


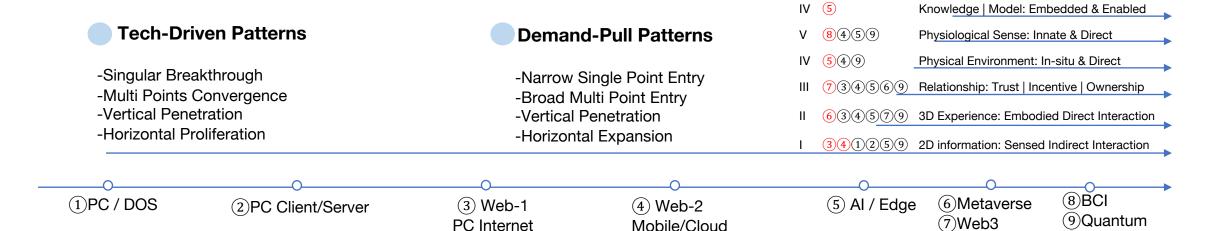




Pulled

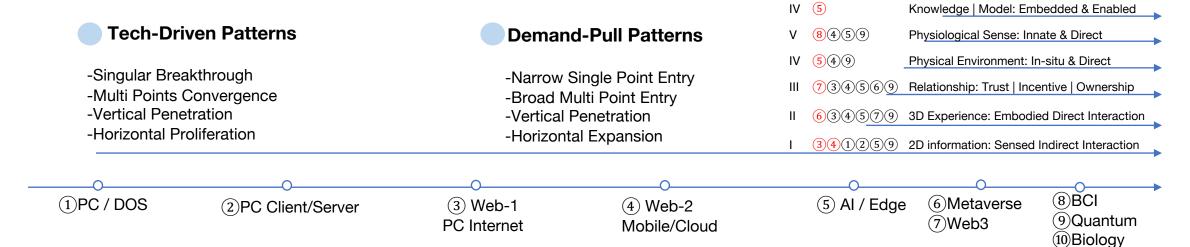
Opportunity Landscape via Micro Lens: Digital Meets Human Needs (Cont.)



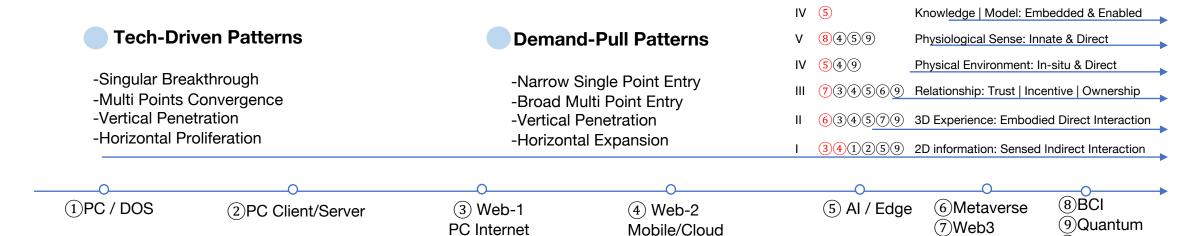


Feb 18th 2023

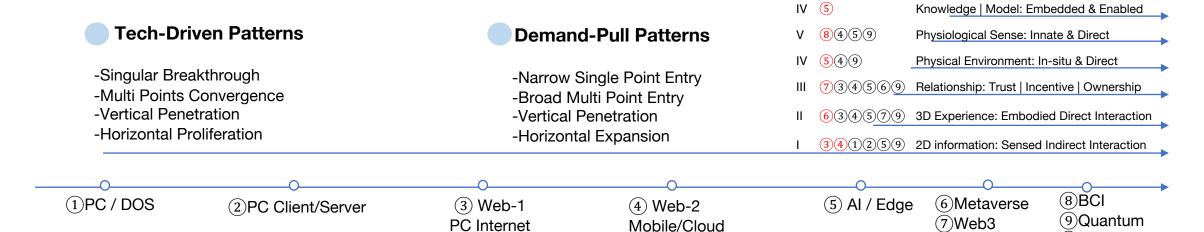
Human Needs		Co	nsum	ier: I	Hierarc	hy-of-	Need	ls x De	emo G	roups	x Time	e Perio	d		Pro	oduce	r	Bu	siness	: Redu	ıce Co	sts & l	Increa	se Yie	lds
Digital Means to Satisfy Human Needs	Commun ication	In		_	g oppo and va				_	_			Informat	- 10	velopm	Design	Resea rch	Product ion	Supply Chain	Marketi	Dustoiii	Employ ee Experie nce	Finance	Legal	General Adminst ration
l:Information (2D) Sensed Indirect Interaction		N	ew cı	reati	ive pro	ocess	8			•															
II:Experience (3D) Embodied Direct Interaction					ive tal olume																				
III:Relationship (Abstract) Trust Incentive Ownership				_	quality	•								<											
IV: Physical External Env In-situ & Direct		rı	atioi	rm þ	ossibi	nues								`											
V:Physiological Internal Sense Innate & Direct															_//										
IV: Knowledge Model Embedded & Enabled																Y									



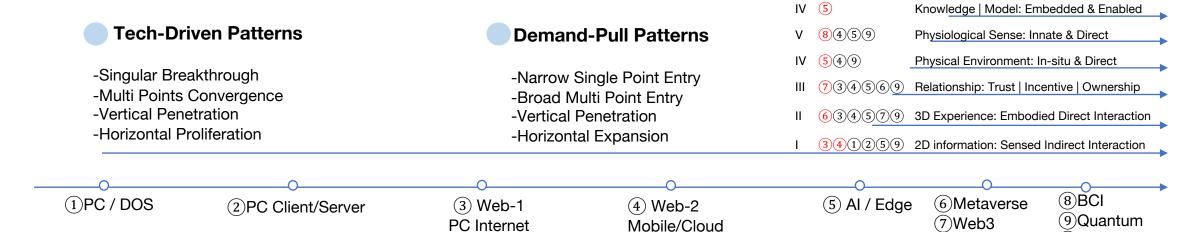
Human Needs		Consu	mer: H	lierarch	ny-of-	Need	s x De	emo Gı	roups	x Time	e Perio	d		Pro	oduce	r	Bu	siness	: Redi	uce Co	sts & l	ncrea	se Yie	lds
Digital Means to Satisfy Human Needs	Commun ication	Social Content								Housing	Sleep	Informat ion &	Food & Beverag	Developm ent	Design	Resea rch	Product ion	Supply Chain	Sales & Marketi ng	Custom er- Support	Employ ee Experie nce	Finance	Legal	General Adminst ration
l:Information (2D) Sensed Indirect Interaction		Most e Know-	how n	nodels	for e	very	disci	pline	and e	•	scien	tist												
II:Experience (3D) Embodied Direct Interaction		Depth Rapid				•	_			ains														
III: Relationship (Abstract) Trust Incentive Ownership		Signifi	cantly	elevat	ting h	nigh-	value	dom	ains	441-														
IV: Physical External Env In-situ & Direct		New a	cadem	ia and	lindu	istry	eco-s	systen	n: the	4 th pa	aradi	gm												
V:Physiological Internal Sense Innate & Direct																								
IV: Knowledge Model Embedded & Enabled																								



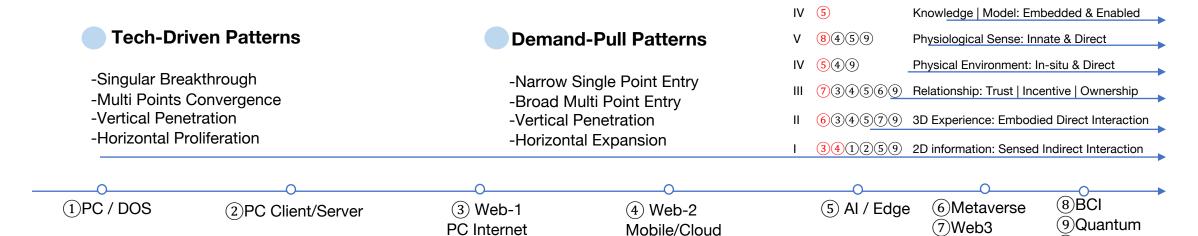
Human Needs		(Consu	mer: H	Hierarc	hy-of-	Need	s x De	emo Gi	roups	x Time	Perio	d		Pro	oducer		Bu	siness	s: Redu	ıce Co	sts &	Increas	se Yie	elds
Digital Means to Satisfy Human Needs	Commun ication	Social	Content	Gaming	SFI Opp	OC an	d Adnity 1	lobe v to opt	vith d	ecent the c	cove ost st	rage o	of data	a and	2 than model	ls		Product ion	Supply Chain	Sales & Marketi ng	Custom er- Support	Employ ee Experie nce	Finance	Legal	General Adminst ration
I:Information (2D) Sensed Indirect Interaction						•						id mo ional			e mode es	els									
II:Experience (3D) Embodied Direct Interaction						•				_		erien	_				<								
III:Relationship (Abstract) Trust Incentive Ownership																	\leq								
IV: Physical External Env In-situ & Direct																									
V:Physiological Internal Sense Innate & Direct																			1						
IV: Knowledge Model Embedded & Enabled																									



Human Needs		(Consu	mer:	Hiera	archy-of-	Need	s x De	mo Gı	oups :	x Time	Perio	d		Pro	oducer		Bus	siness	: Redu	ıce Co	sts &	Increa	se Yie	lds
Digital Means to Satisfy Human Needs	Commun ication	Social	Content	Gaming	Co p	Gen-2 system will cover most of the ERP categories Replace and/or extend the rigid domain models Much richer and flexible domain and know-how models Much enhanced user experience and elevated productivity Gen-3 system opportunities: Office Robots, Room, Places															Finance	Legal	General Adminst ration		
I:Information (2D) Sensed Indirect Interaction																									
II:Experience (3D) Embodied Direct Interaction					Much richer and flexible domain and know-how models Much enhanced user experience and elevated productivity																				
III:Relationship (Abstract) Trust Incentive Ownership									I		ı	I	I		ı	1									
IV: Physical External Env In-situ & Direct																				1	1				
V: Physiological Internal Sense Innate & Direct																						1			
IV: Knowledge Model Embedded & Enabled																									



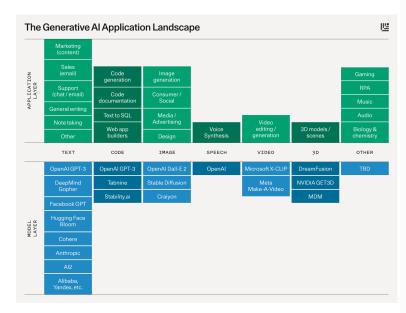
Human Needs		(Consun											nnor	tunities	r		Bu	siness	: Redi	uce Co	sts & l	Increa	se Yie	elds
Digital Means to Satisfy Human Needs	Commun ication	Social	Content (E E A	very f xtensi utono	actor ve an my a	y floo d ric nd au	or, eve her de toma	ery wa omair tion c	areho mod over	use, e els th growi	very p an pre	rodu evious egori	ction s rigid		ı	Resea rch	Product ion	Supply Chain	Sales & Marketi ng	Custom er- Support	Employ ee Experie nce	Finance	Legal	General Adminst ration
I:Information (2D) Sensed Indirect Interaction				C	an als	o ext	end to	o cove	er agr	icultu	ral ac	ctivitie	es												
II:Experience (3D) Embodied Direct Interaction				0	ver ti	me, h	umar	ı labo	r be g	gradu	ally a	ugmei	ited a	ind re	placed										
III:Relationship (Abstract) Trust Incentive Ownership						Ι										<		Y							
IV: Physical External Env In-situ & Direct																									
V:Physiological Internal Sense Innate & Direct																									
IV: Knowledge Model Embedded & Enabled																		1							



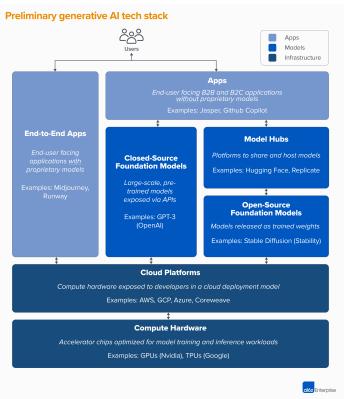
Feb 18th 2023

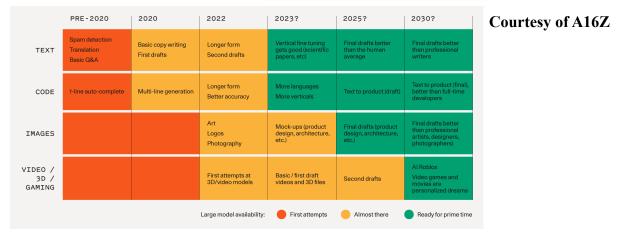
New Paradigm leads to New Startup Landscape

- The Opportunity ahead is Massive
- New emerging startup eco-system
 - Reference to other VC memos
 - Think critically on your own
- Learning from OpenAI: my reflection
 - Sam Altman
 - The journey of OpenAl
 - It is not just the cutting-edge technology
 - Vision, ambition, thinking differently, perseverance
 - Disciplined execution matters the most



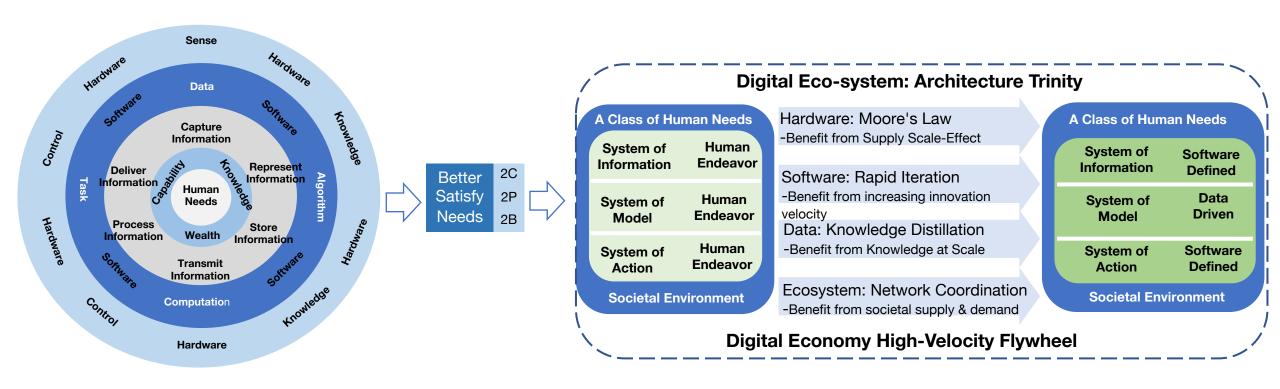
Courtesy of Sequoia



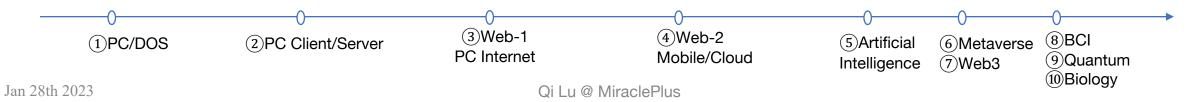


February 18th 2023 Qi Lu @ MiraclePlus 26

Digital Long Tide & Powerful Flywheel of Digital Economies



Digitization is an innate extension of human being; it is an ever-progressing historical long tide with big waves

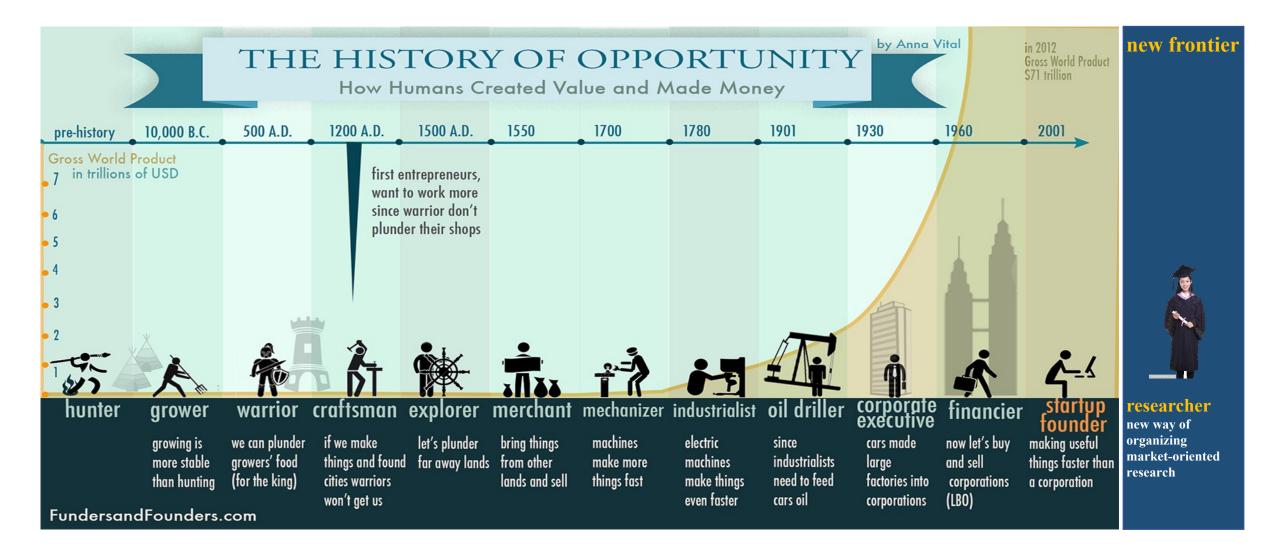


27

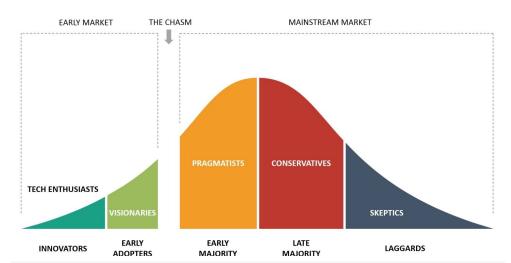
The Efficient Frontier of Technology Driven Innovations: Opportunity Map

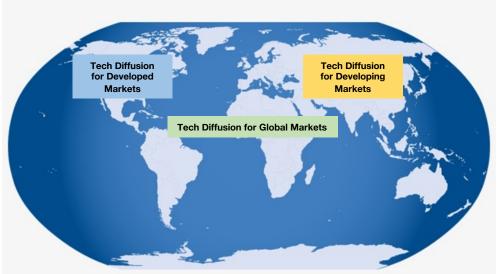
New Energy		New Life-science		New Material Science		New Space-Tech	
Sustainability-as-primary-driver, solar & wind energy, energy storage, carbon capture, electrification via new batteries, hydrogen, nuclear fusion, etc.		Computation-driven R&D paradigms; new synthetic biology R&D system for better products/new productsgories; new healthcare R&D system with new therapeutics, immunology, regeneration, precision medicine, antiaging, and much more.		Industrial-needs-driven + computation & data-driven R&D paradigm; new structure and new processes in a variety of areas such as photonics with optical sensing & computation, semi-conductors, bio etc.		Earth surface: AD, VTOL, deepsea; orbital space: constellation of sensing and communication; deep space: in-situ development; planets and outer space: explorations	
Energy transformation is increasingly modularized, standardized, miniaturized, software-defined & data-driven Technology-driven innovation increasingly becomes direct & primary productive capital standardized, software-defined & automation-driven							
Platform	Mobile / Cloud	Al / Edge		Metaverse	Web3	BCI	Quantum
Application	2C: fulfill more vertical demands	2C: Create new & improve all existing categories	2C: Conte Games	ent, Social Comms,	2C: DeFi, NFT, DID, GameFi, SocialFi	2C: : Rehab, interaction	2C: Education, Community
	2P: dev, design, creation	2P: ML-ops, new development genre & professions new toolchains and ecosystems	2P: Dev, D	esign, Creation tools	2P: Dev Tool	2P: Early R&D	2P: Dev System
	2B: cover more horizonal demands	2B: Embedded industrial and agricultural devices; automation, data-driven automated decision support	2B: Collab	oration, Marketing	2B: DAO	2B: Service	2B: Special HW/SW; simulation; PQC security
Front End	Canvas: vertical short video (Tik Tok)	All modality sensors & actuators; natural interactions			Wallet, Mobile Phone	equipment	Can utilize existing general and special equipment's;
	Container: AR (part of cross-platform metaverse experience)		Optical Mod	· · · · · · · · · · · · · · · · · · ·			
	Devices: more perception capabilities	Embed in existing ones and create new ones: e.g. cars, drones, robots, places, etc.	chips, Devices and Device-OS			Materials, chips	Materials, Agriculture, etc.
Back End	Capability Provision: Cloud Native (k8, WASM, FAAS)	Capability provision: vertical AI cloud or AIOT edge; MaaS; Knowledge-Capability-API (aka OpenAI)	Rendering chip/hardware/infra; special-purpose Chips, 3D		1 - 3 - 3 - 1 - 7 - 7	Services (based on neural	Chips, devices, and equipment based on (electron, photon, ion, atom)
	Infrastructure: data stack, communication network, new laaS	Infrastructure: Generative AI, massive-parallel-training high-scale/low-cost inference; new laaS (data and label data); Cuda and parallelism; new Data Stack					
	Equipment & Facilities: High Performance Computing (HPC) Chip, High capacity computing chips	Back-end devices: higher computing performance chips; newer packaging form via chiplets;	Distributed (Computing Systems	privacy	system)	quantum mechnisms
Platform Essentials	Reaching everyone's terminal Digitally encapsulate and orchestrate the atomic power of any industry	Superposition vector-based computational system supporting all modality sensing and actuation; establish intelligent systems; intelligence embedded in front-end and back-end devices or new endpoints		ira avnariancae, acroce all	and incentive-ownership	Human-internal digital experience containers are cross-platformable	Computing System + Computing Cornerstone

The History of Opportunities: Entrepreneurism's New Frontier



Scope of Opportunities: Global Diffusion Paradigm Shift





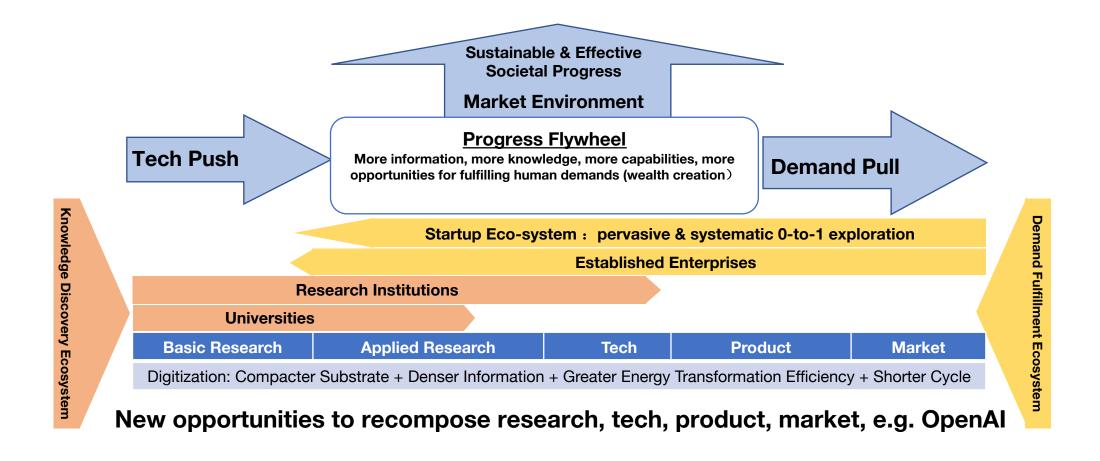
Technology Diffusion Pillars

- Access to Tech (global)
- Access to Capital (global)
- Access to Market (US, developed markets; China, developing markets)
- Access to Talent (US, China, local)

Evolving Global Diffusion Models

- US domestic & to other developed and developing markets
- China domestic
- China to other developing markets
- China to US and other developed markets
- Digital nomad to US, China, and all other markets

Historic Window of Opportunity: Paradigm Shift



February 18th 2023 Qi Lu @ MiraclePlus 31

Exciting Time: The Future Is Already Here

The Best Way to Predict the Future Is To Build It

MiraclePlus - Intro

- Started out as Y Combinator China in 2018
- Mission: maximize innovation at upmost origins
- Vision: the most vibrant entrepreneur community
- Highlights
 - 45803- startup applications
 - 7 successful localized-YC accelerator batches
 - 258 high potential portfolio companies
 - 637- founders in a vibrant & fast-growing community
 - 22% oversea HQ'd growing well beyond China
 - 9.5/10 NSAT highly satisfied founders

It's Time To Build!

Q&A

Thank You!