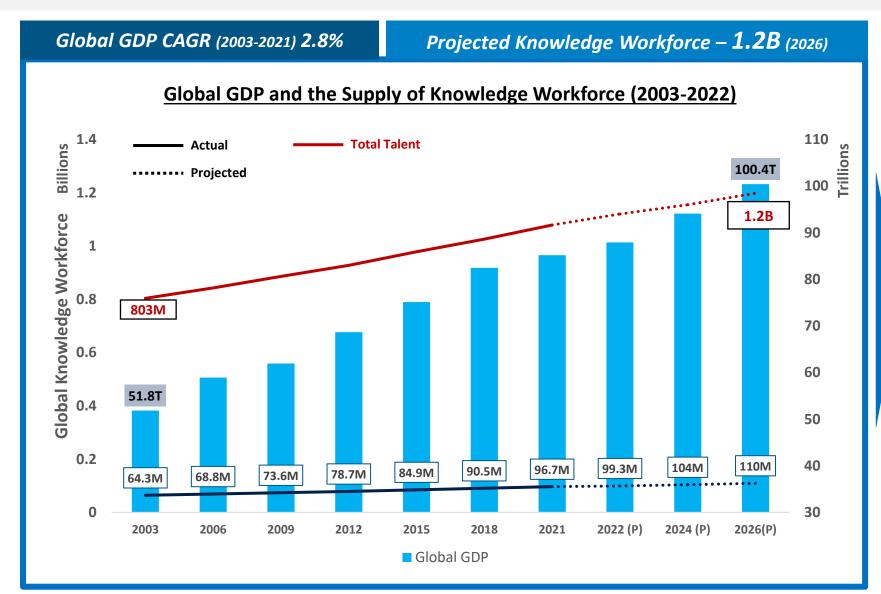


<u>Supply of knowledge worker vis-à-vis global GDP</u> - While the Total Knowledge Workforce has expanded over the period (1.65% CAGR), its growth has been slower than the GDP growth



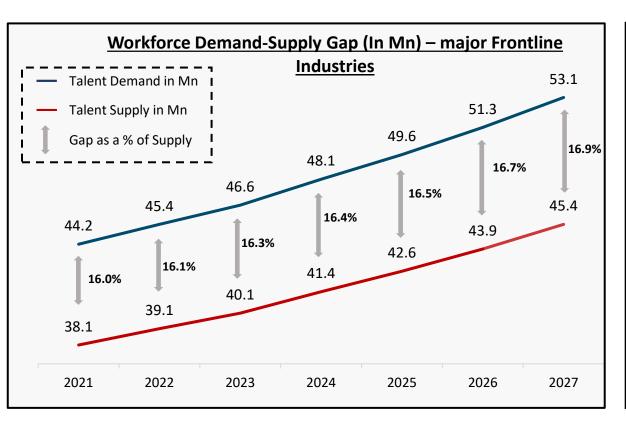


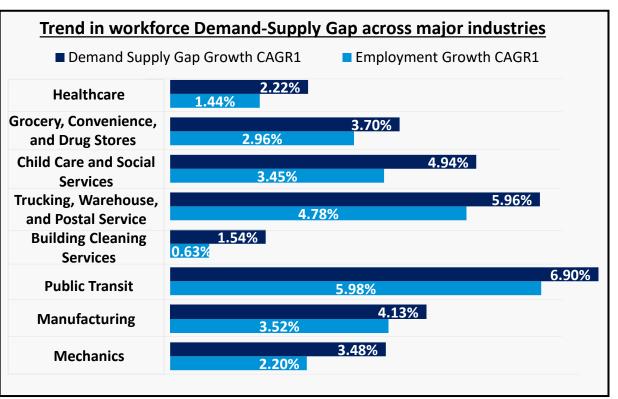
# **Key Insights**

While the Global GDP has grown at a CAGR of 2.80% (2003-2021), the talent pool of Knowledge
 Workers has only grown at 1.65%, indicating the scarcity of skilled talent globally

Source: The represented data is derived from Draup's Proprietary Talent Module, World Bank national accounts data, and OECD National Accounts data files. The demand and supply data of knowledge workers has been triangulated based on Draup's Talent module, secondary reports, news articles and research papers Note: Global GDP Data has been provided at constant prices based on US\$ 2015 value, from World Bank (https://data.worldbank.org/)

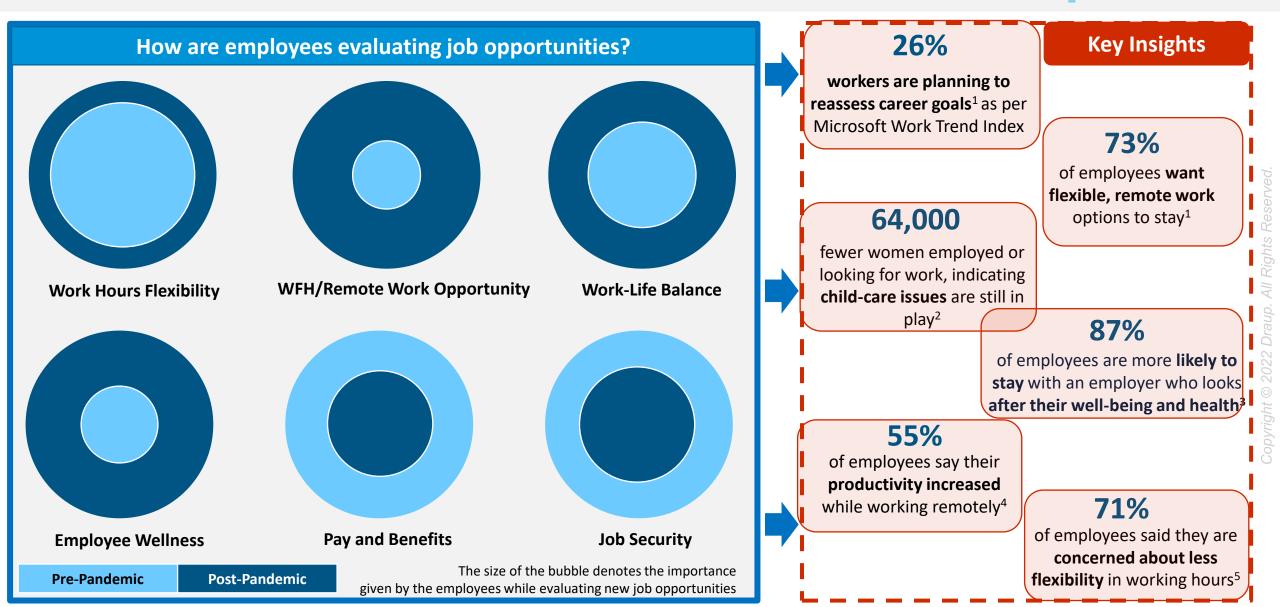






<u>The pandemic has made employees re-evaluate jobs</u> - >70% of the employees want flexible work to stay post-pandemic while the importance of pay and benefits has reduced in the post-pandemic period





On-demand Workforce, Freelancing and Crypto: In the Post-Covid-19 era, talent platforms like TopTal, TalMix, BrainTrust, UpWork are gearing up to play a more significant role in closing the skills gap



70 M+ US Workers Freelanced in 2020<sup>1</sup>



\$1.2 Trillion contribution To America's GDP<sup>1</sup>

4x Growth<sup>2</sup>

>30%

In the number of **Digital Talent** Platforms since 2009

**Business Leaders reported** using new talent platforms extensively

~90%2

~60%<sup>2</sup>

Business Leaders reported that talent platforms will be somewhat to very important for competitive advantage

Business Leaders expected they would increasingly prefer to "rent," "borrow," or "share" talent with other companies

**Freelancing Websites that pay in Cryptocurrency** 

laborX







#### **Marketplaces for Premium Talent**

- Experts can be hired for project work or embedded in project teams.
- · The project assignments can range in length from a few hours to more than a year.
- · Hard-to-find capabilities, such as software engineers, UI/UX designers, project managers and scrum masters, financial modelers, and even interim CEOs

#### **Digital Freelancing Marketplaces**

- Match individuals with companies for discrete, taskoriented projects—for instance, designing a logo or writing a project proposal
- Wide variety of skills, and payment is often based on per completed task

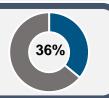
## **Crowdsourcing Innovation Platforms**

- Reach large user communities with sophisticated technical skills, and thus tap into a worldwide pool of experts to generate solutions to specific challenges
- Allow immediate exposure to a web of external experts with highly specific skills
- Offer prizes as a reward for the winning solutions



# By 2027, 86.5 million people will be freelancing in the US

% of US workers who are part of the gig economy<sup>2</sup>



% increase in remote job openings in 2021, compared to 2020<sup>3</sup>



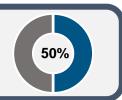
% of Postgraduates in US who take up freelancing tasks<sup>3</sup>

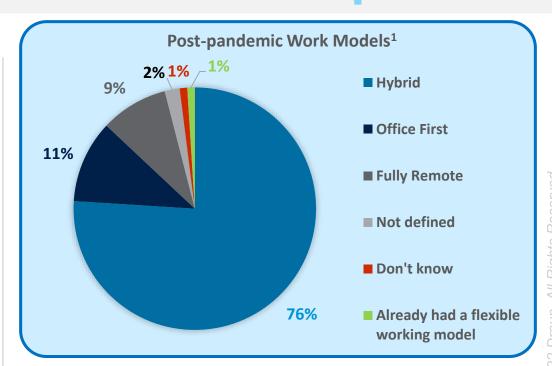


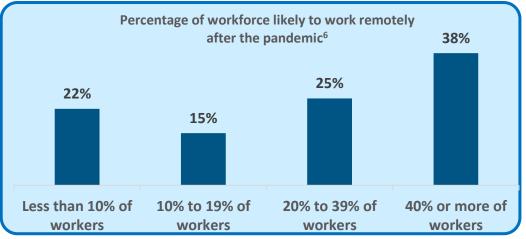
Corporations that are planning to use more non-traditional workers/flexible workforce in the coming years<sup>4</sup>



% of the US workforce that will participate in Gig Workforce by 2027 if the current growth rate continues<sup>5</sup>







Metaverse is poised to revolutionize the future of work through new dimensions to workforce training, skilling, team collaboration, addition of digital AI-enabled colleagues, and the rise of a metaverse economy with new jobs and roles, in virtual workspaces...



## Metaverse to re-define the way workforce learns, works and becomes future ready

#### Highly effective, efficient and fast-paced training & skilling • **High engagement** - Interactive and immersive • Gamification – role plays, simulations, etc. • **Soft-skill development** – easier with Metaverse • **Greater scope** for visually demonstrating concepts (e.g., an engineering design) and work practices **Team Collaboration Training & Skilling** Al-enabled digital coaches and assistants Accelerated learning and skills acquisition; Virtual High levels of collaboration, Metaverse economy - New Workspaces social connectedness, & mobility enterprises, new jobs, and new roles · Virtual meetings, conferences, Rise of a events – real-life like experience Rise of metaverse-native enterprises, **New immersive** metaverse conceived and developed within the Enhance team cohesion Virtual 2 forms of team virtual, 3-D world. Eg. IMVU, economy with Foster informal and spontaneous collaboration Decentraland, NextMeet, etc. Workspaces new organizations conversations and wellness New jobs and roles. Eg,. metaverse & work roles 3 • Interactive, immersive 3-D marketer, metaverse architect, avatar experience for better teamwork conversation designers, "holoporting" **Emergence of** • Employee wellness- Counter video travel agents to ease mobility across new digital, AImeeting fatigue and the social different virtual worlds, etc. disconnectedness or isolation enabled colleagues Digital, Al-enabled New jobs and roles Digital colleagues to help increase colleagues productivity for human workforce · Al-powered, human-like bots to act as advisors and assistants and do heavy lifting of work, freeing up human workers for more productive, value-added tasks High scalability – digital colleagues

## **Increasing adoption of Metaverse - Illustration**

#### User

#### **Metaverse Application**

# accenture

**Virtual Workspace** Nth Floor by Accenture, based

on Microsoft's Mesh application

# **Virtual Training**

Purchased 60.000 virtual reality (VR) headsets for virtual training

#### SIEMENS









#### **Virtual Training**

Startups like Zepeto build VR training worlds









**Ariana Grande** American Music Pop Rapper

# 

- In Fortnite, popular musicians such as Travis Scott and Ariana Grande have performed in virtual concerts.
- In April 2020, Travis Scott became a digital avatar for Fortnite with >12 mn fans

#### **Start-ups**







**INEXTAIND** 

## **Metaverse Application**

Avatar-based immersive reality platform for **interactive** working, collaboration, and learning solutions

**Digital Humans** - Al-powered customer experience ambassadors

**Emotionally-responsive digital humans** 

Uses ECG electrodes to decode neural signals so that users can control objects with their minds



		<u>Benefits</u>	<u>Challenges</u>	
Artificial Intelligence (AI)		<ul> <li>Avatars made possible for Metaverse; language processing</li> <li>Talent marketplaces</li> <li>Research, education assistance e.g. NAO, Astra, Spot, Optimus</li> </ul>	<ul> <li>Bias problem/ trust-deficit</li> <li>Data security and storage</li> <li>High computational power</li> </ul>	
Blockchain		<ul> <li>Easy employee records and skill verification</li> <li>Inter-operability and decentralization</li> <li>Decentralized Autonomous Organization (DAOs) &amp; NFTs*</li> </ul>	<ul> <li>Scalability</li> <li>Inefficient technological design</li> <li>Lack of Privacy – public ledger system</li> </ul>	
Augmented & Virtual Reality	M	<ul> <li>Efficient and effective hybrid and remote learning and skilling</li> <li>Virtual workplaces - spontaneity, interactivity, fun of teamwork</li> <li>"Metaverse" employee experience</li> </ul>	<ul> <li>Harassment</li> <li>Cybersecurity</li> <li>Addictive design</li> <li>Privacy &amp; data rights</li> <li>Ubiquity****</li> </ul>	
Digital Humans/ Social Bots	£ ?	<ul> <li>Human like AI and ML driven conversational bots</li> <li>Ability to read and understand emotional cues/ body language</li> <li>Highly scalable; play roles of coaches/assistants/ colleagues</li> </ul>	<ul> <li>Social values driven design and responsible development of technology</li> </ul>	
Internet of Things (IoT)		<ul> <li>Data management</li> <li>Integration</li> <li>Real-time simulations</li> <li>Smart buildings &amp; desks</li> <li>Efficiency &amp; productivity</li> <li>Mobility and agility</li> </ul>	<ul><li>Connectivity/ limited bandwidth</li><li>Inter-operability</li><li>Scalability; Cyber-security</li></ul>	
Digital Currency/ Cryptocurrency	(C)	<ul> <li>Enable users to transfer value while they work and socialize in the 3D digital world</li> <li>Financial gains – Eg. crypto can be used to buy virtual real-estate</li> </ul>	<ul> <li>Inclusion and ubiquity</li> <li>Inter-operability</li> <li>Economic factors</li> </ul>	
Wearables Tech	'n	<ul> <li>Virtual locomotion &amp; sensing technologies** Eg. Haptic Glove</li> <li>"Quantified self" development</li> <li>Network insights e.g, heatmaps</li> </ul>	<ul> <li>Risk of misuse</li> <li>Manipulation/ fraud</li> <li>Health impact</li> <li>Distraction</li> <li>Vs.</li> </ul>	
		• Ability to create 3D from 2D Fg RawNeRF Instant NeRF with Al	Realism – For physical properties of	

The foundational challenges of today's digital experiences need to be tackled before the metaverse can realize its full potential.

#### - World Economic Forum

Despite its vast future promise, the metaverse is still in its infancy in many respects. Significant obstacles could stymie its future progress: the computing infrastructure and power requirements for a full-fledged working metaverse are formidable. Today's metaverse consists of different virtual worlds that are not unified.

#### - Mark Purdy, Economics and technology advisor London, UK

Employers might also fear harassment in metaverse platforms with collaborative features — a longstanding challenge in the workplace. Research shows that biased behavior and sexist comments don't dissipate when more meetings take place virtually.

#### - Venture Beat article (Jan '22)

The lack of interoperability and uniformity between the various metaverse platforms is one of the biggest challenges.

- Saeed Elnaj, Forbes Councils Member

**3D** reconstruction



- Ability to create 3D from 2D. Eg. RawNeRF, Instant NeRF with Ali Digital Twins; real time tracking of physical objects in 3D\*\*\*
- Vivid, real-life metaverse highly depends on 3D reconstruction
- Realism Eg. physical properties of materials like weight, fold etc.
- Inter-operability; Scalability

\*Non-Fungible Tolens; \*\*Eg. leg attachments to create realistic walking experiences; \*\*\*Eg. Perceptus Platform enables real time tracking of physical objects in arbitrary 3D environments; \*\*\*\*ubiquity of identity and access, of devices, etc. Source: Draup Analysis, World Economic Forum, Tech HQ, HBR, Academy Binance, 101 Blockchains, AnalyticsIndiaMag, LMU Loyala Law School, IoT Now, SpiceWorks, UpGrad, Digital Humans, etc.

# **Data and Analytics skills emerging prominence across functions**



Skills Clusters / Job family	Finance	HR	Sales	Digital Marketing	Procurement
Data mining and Data analysis (Skills)	Job Role Financial Analyst Transaction analysis, Credit analysis, Risk analysis, Fraud analysis, Customer sentiment analysis, Cost tracking, Risk Forecasting	Employee behavior analysis, Performance analysis, Candidate sorting, Employee retention analysis	Sales target tracking, Sales per channel analysis, MRR Inspection	Digital/Web Analytics, Consumer behaviour analysis, Promotions Planning, Visitor conversion rate analysis,	Rogue spending analysis, Vendor management, Order processing
Data Forecasting and Predictive Analytics	Algorithmic trading, Cashflow prediction, credit worthiness prediction, P&L forecasting, Budget forecasting	Attrition Forecasting, Churn prediction, Hiring Difficulty forecasting	Sales growth projection, Deals slippage forecasting, Sales quota prediction	Product life cycle analysis, Sales & Volume projection, Marketing Budget forecasting	Order fulfilment prediction, Inventory forecasting, Demand forecasting
Big data	Fraud risk monitoring, Transaction monitoring, Stock Monitoring	Application tracking, Resume shortlisting	Price optimization, Lead tracking	Consumer insights monitoring, Web traffic monitoring	Order risk mitigation, Market trend tracking
Digital tools	TradingView, Asset-Map, Capital IQ, Bloomberg, Reuters, Pitchbook data	Oracle HR Analytics, Visier People, IntelliHR, Performyard	Salesforce Sales Cloud, Hubspot Sales Hub, Gong, Groove	Google Data Studio, Oracle OBI, Datorama, SAP Marketing Cloud	SAP Ariba Procurement, Oracle Cloud ERP, Zycus

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Skill Clusters for Sales job family: Through the study of JDs, six skill clusters were identified, of which three skill clusters are core to Sales job family; Centralized CRM Tools, Proposal Management Tools and Social and Digital Sales are some of the emerging Future skills in the functions



# **Critical Thinking**

Critical thinking is needed for sales support roles in performing market and competitor research, translating sales trends, assisting in assessment of customer needs and expectations vs. capabilities/ strategies

# **Customer Relationship Management**

- Managing customer accounts, following up with customers for administrative purposes, and providing troubleshooting assistance for orders, account statuses etc., with CRM tools like (SalesForce, Zoho CRM)
- Providing knowledgeable, objective financial guidance and customized strategies to consumer segments to enhance customer experience

#### **Communication Skills**

Solid communication is extremely critical for sales professionals to draft concise RFPs, presale memos & strategy documents, convey solutions to the customers, etc.



# **Emerging Future Skills and Trends**

- **Centralized CRM Tools**
- **Analytics-Driven Tracking**
- AI/ML Powered RPA Tools
- Use of Proposal Management Tools (RFPIO, Loopio)
- **Social Selling & Digital Sales**

**Differentiating Core Skillset** 

# **Sales Tracking**

Developing and monitoring performance indicators for sales and staff members, managing sales tracking tools, ensuring licensing & appointment requirements are met, and appropriate plan designs are marked sold for assignment to implementation team in **CRM** tools

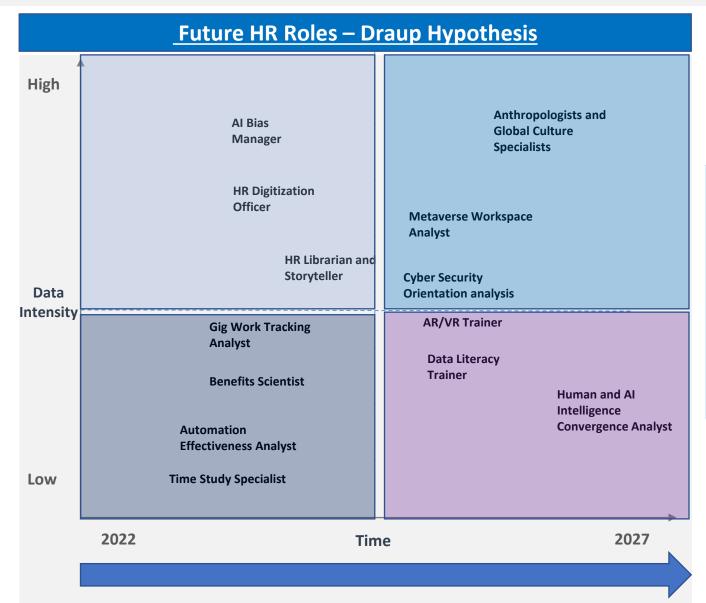
#### **Pre-Sales**

Identifying new leads & potential needs in partnership with the prospects using extensive research, product trails & inbound lead generation techniques, and prioritizing lucrative leads based on market segmentation, **lead scoring & qualifying** techniques

#### **Sales Analytics**

- Leveraging analytics & BI tools like LiveHive, 6Sense to gain insights of pipeline, forecasting, and coaching of sales lifecycle
- prioritize analysing the best opportunities, sales gamification effectiveness, sales projections, performance, opportunity indices and optimal lead scores





## **Illustrative Roles**

(based on limited forward-looking interviews n = 10 HR leaders)

Some exciting roles that came up on our interviews → May have a transformative effect on data/Al journey of companies:

- Benefits Science We know we have to compete hard in benefits across global locations, so evolving that into a structured science may be advantageous (a lot of this is currently outsourced to administrators). Taking inhouse responsibility for this may play a competitive advantage (the analysis part and not the administration)
- Data Literacy Training HR will play a more significant role in Data Literacy
- Cyber Security Responsibilities
- Anthropologists and Global Culture Specialists As the complexities of working across cultures increase, HR may need roles such as these
- Automation Effectiveness Measurement, etc.

Source: Draup Analysis

