



Impacts of COVID on VC Investment and the B2B Technology Markets

OCTOBER 2020

Carnegie Mellon University Swartz Center for Entrepreneurship

AGENDA

Which B2B sectors are moving "fast forward" in a post-COVID world? Pre-COVID B2B Markets 3 VC Investment Shifts During COVID



Sneak Preview of MBA Survey Results



© Illuminate Ventures 2020

Illuminate Focus and Team

HISTORY OF FINDING AND SCALING COMPANIES WITH A COMBINED TOTAL OF 5 IPOS AND 15 M&A EXITS

- 100% focused on B2B/ENTERPRISE SOFTWARE
- Invested at **SEED STAGE** across 30 companies
- **TRUSTED ADVISORS** 18 board roles, 1st call from CEOs
- **PLATFORM** 45 world-class B2B execs and >70 MBA intern graduates as **SCOUTS** and additional resources to our portfolio
- Advocates for **DIVERSITY** in entrepreneurship with 70% diverse/40% female founders
- **THOUGHT LEADERSHIP** surveys, white papers and B2B pieces with 100s of media citations



15 years VC with 2 IPOs and 7 M&A exits 12 years enterprise software operator Exec team on 1 IPO, 2 M&A exits

Cindy Padnos Early SaaS adopter as CEO 2X, founder 1X

👽 Vivant 🛛 monitise





VC with Illuminate since 2019 25 years enterprise software operator Exec team on 2 IPOs, 4 M&A exits

Jennifer Savage



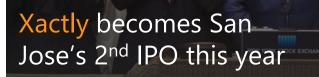






Illuminate's Companies Become Market Leaders

2 IPO, 7 M&A EXITS AND >\$4B IN FINANCING COMMITMENTS FOLLOWED ILLUMINATE'S \$40M



Inspire Pear

Alercury News

Vista to buy Xactly for about \$564 mln IPE Hub





WSJ pro

Twin Sister Duo at Vancouver's Allocadia Raises \$7 M from Altos, Inovia, Illuminate **DELAKIL**

New Relic Acquires Cloud Infrastructure Monitoring Service Opsmatic

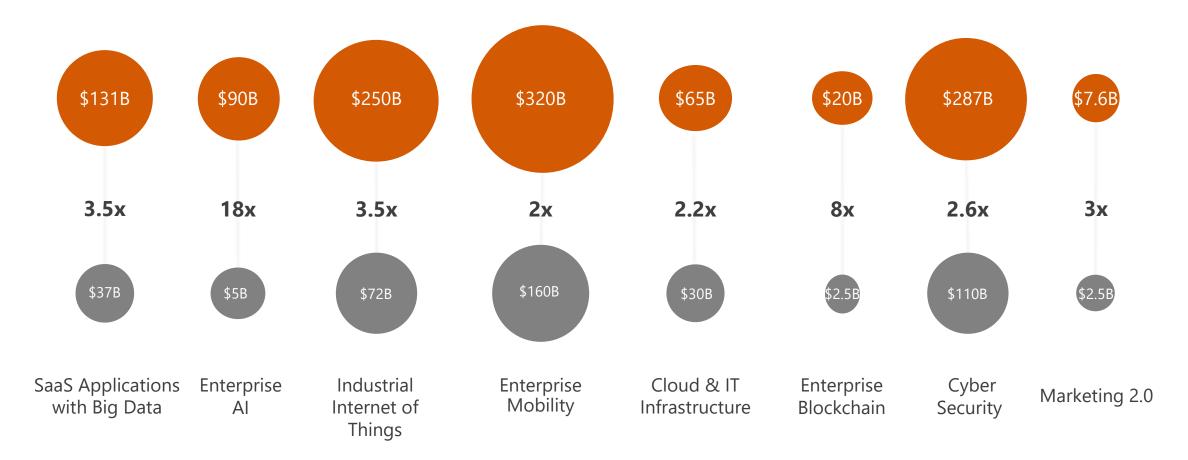
TE

Contentstack raises \$31.5M Series A round for its headless CMS platform led by Insight Partners



2019 B2B Sectors of Digital Transformation

PROJECTED MARKET GROWTH NEXT 5 YEARS





And then this happened...





We Seek To Invest at the Intersection of Multiple Trends

PROVIDING TAILWINDS TO ACCELERATE GROWTH





Some Very Rapid Shifts Within Enterprises due to COVID

SOME CHANGES WERE NEARLY IMMEDIATE - OTHERS WILL DISPLAY OVER TIME - AND SOME MAY BE SHORT-LIVED

Before

- Centralized offices
- Classroom training
- Asynchronous communication
- Professional coders
- Separate parallel channels
- Al "experiments"
- Physical IT infrastructure

After

- Remote first for white collar workers
- Online training
- Synchronous, collaborative communication
- Low code/no code
- Omni-channel experiences
- Hyper-automation/RPA with instant ROI
- Cloud-based IT infrastructure



Every Category of IT Spend Forecast to Decline in 2020

BUT SOFTWARE SPEND IMPACTED LESS THAN MOST - AND SOME SUB-SEGMENTS ACCELERATING

IT Spend Sector	2019 Spending	2019 Growth (%)	2020 Spending	2020 Growth (%)
Data Center Systems	\$210,053	0.6	\$188,365	-10.3
Enterprise Software	\$476 <i>,</i> 687	11.7	\$449,506	-5.7
Devices	\$711,525	-0.3	\$596,914	-16.1
IT Services	\$1,040,263	4.8	\$969,438	-6.8
Communications Services	\$1,372,236	-0.6	\$1,326,492	-3.3

Worldwide IT Spending Forecast (Millions of U.S. Dollars)



IT Investment Impact Varies Significantly by Industry

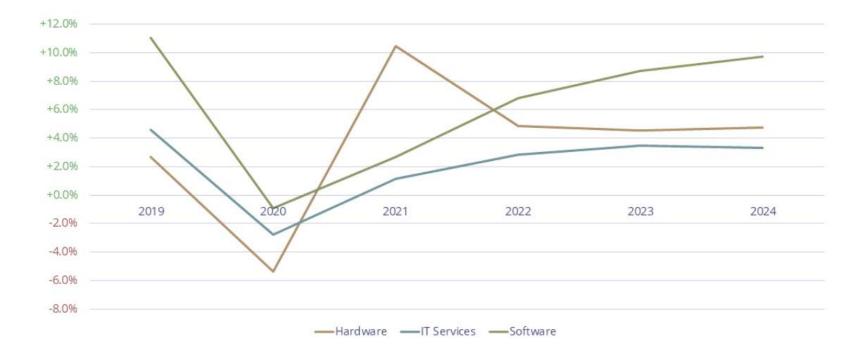
AND UNCERTAINTY REMAINS FOR SOME VERTICALS IN THE LONGER TERM

Industry	Short-Term Impact on Tech. Investment	Long-Term Impact on Tech. Investment		
Banking and Securities	Negative 👢	Uncertain		
Communications	Positive 1	Positive 🕇		
Education	Positive 1	Positive 1		
Public Sector	Positive 1	Positive 1		
Healthcare	Positive 1	Positive 1		
Insurance	Negative 👢	Uncertain ⇔		
Manufacturing	Negative 👢	Uncertain		
Retail	Negative 👢	Uncertain \leftrightarrow		
Transportation	Negative 📕	Negative 📕		



IT Spending Rebound is Expected Relatively Quickly

WITH SOFTWARE INVESTMENT SEEING CONTINUED GROWTH OVER TIME

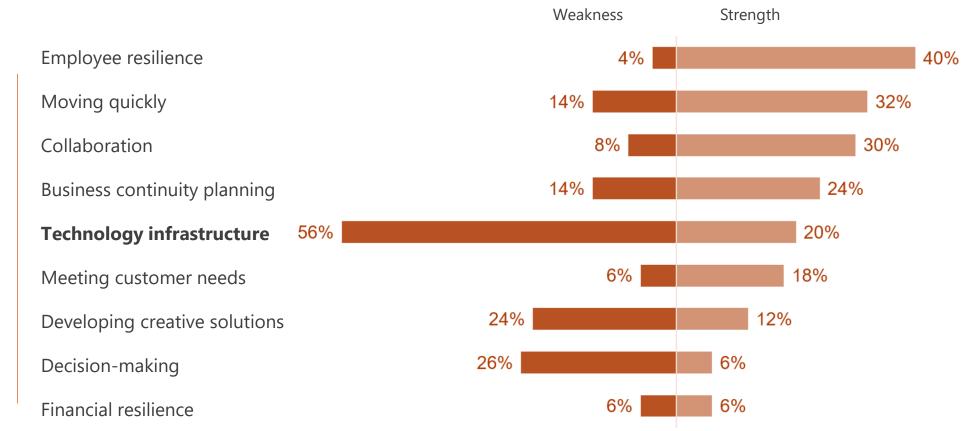


WW IT Spend 2019-2024



Tech Infrastructure Viewed as Critical Weakness

WHILE MANY OF THE MORE 'HUMAN' FACTORS PERCEIVED AS A STRENGTH OF THE BUSINESS

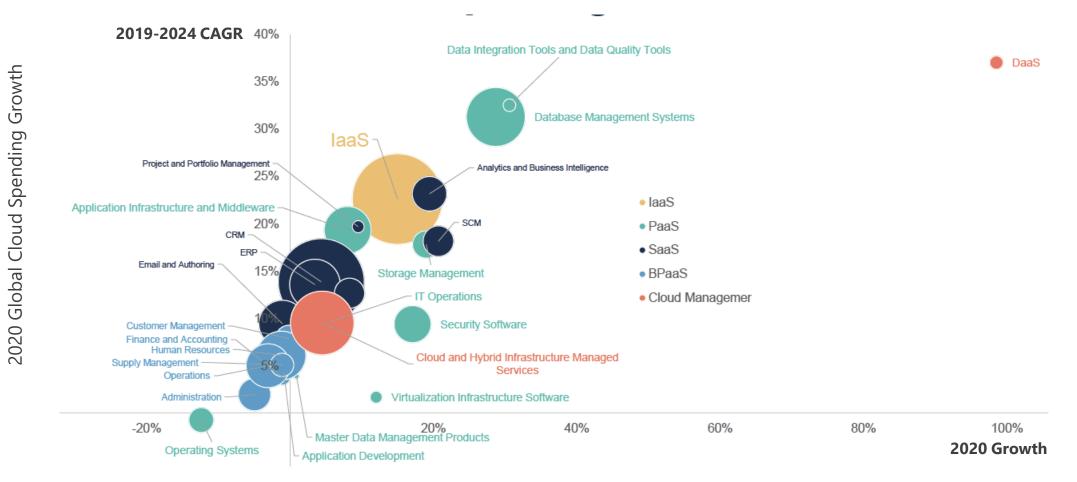


Drganizational Capability Assessment



Cloud Software Far Outpaces Overall Software Growth

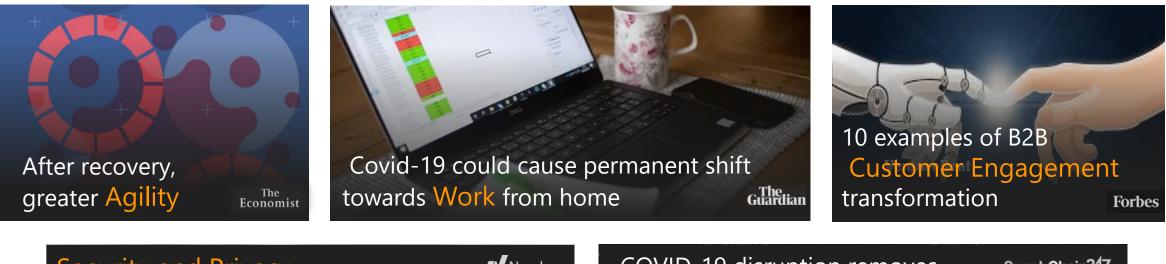
CIOS GRAVITATE TOWARD SPENDING ON SUBSCRIPTION AND CLOUD SERVICES TO LOWER UPFRONT COSTS





Assessed COVID Shifts in 5 Areas Initially

SOUGHT TO IDENTIFY KEY TRENDS AND WHERE THEY INTERSECTED





COVID-19 disruption removes SupplyChain2d7 decades of Supply Chain inertia





DEMAND EXPLODES FOR EVOLVING BUSINESS MODELS AND PROCESSES FASTER

Rising Trends

Market

- Freelance/Crowd-economy use up
- Globalization Geo diversity to survive local/single-source impacts

Business

- Borderless workforce To avoid layoffs, ramp quickly, change location
- Decentralized decisions Speed a must

Tech

- Cloud/SaaS Everything goes online
- Al and Analytics For transparency

Accelerating Segments

- Cloud/SaaS Apps
- DevOps
- Supply Chain
- Collaboration
- Al-assisted Humans / analytics / RPA and Hyper-automation



Work

SUDDEN SURGE IN REMOTE WORK CHANGES BEHAVIOR, STRESSES SYSTEMS AND PROCESSES

Rising Trends

Market

- Talent Shortages Access to broader talent pools
- Lifelong Learning Creating an adaptive, resilient workforce

Business

- Borderless Workforce
- Collaborative Engagement

Tech

• Cloud/SaaS – Anywhere access for distributed teams

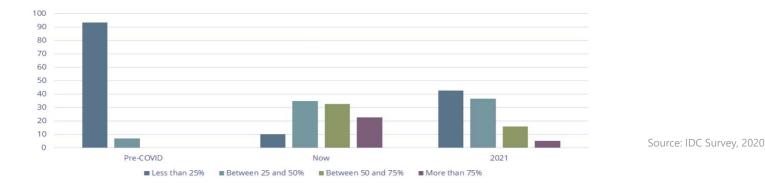
Accelerating Segments

- Collaboration and Communication Tools
- Corporate eLearning
- Employee Performance
 Management
- Network Security

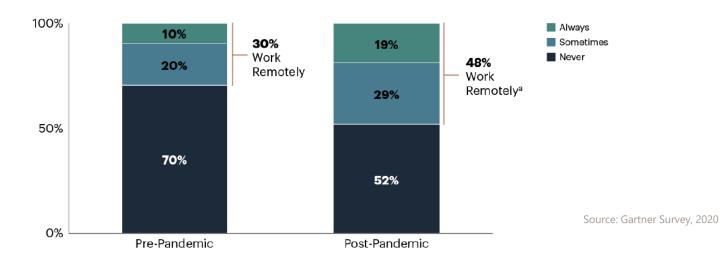


Work From Home Rates May Shift Somewhat Over Time

While there is a big leap in the % of time employees WFH today, it is expected to mitigate somewhat over time



Another view suggests that nearly 20% will always WFH enough more parttime to have eh total represent nearly half of all workers





E-learning Platforms are Accelerating

THE FUNDAMENTS WERE ALREADY IN PLACE





Omni-channel & Experience Customer Engagement

CUSTOMER AND SELLING EXPERIENCES GO EVEN MORE VIRTUAL

Rising Trends

Market

- Informed On-demand, and
- Anywhere Access

Business

- eCommerce Unprecedented uptake
- Omni-channel One channel not enough

Tech

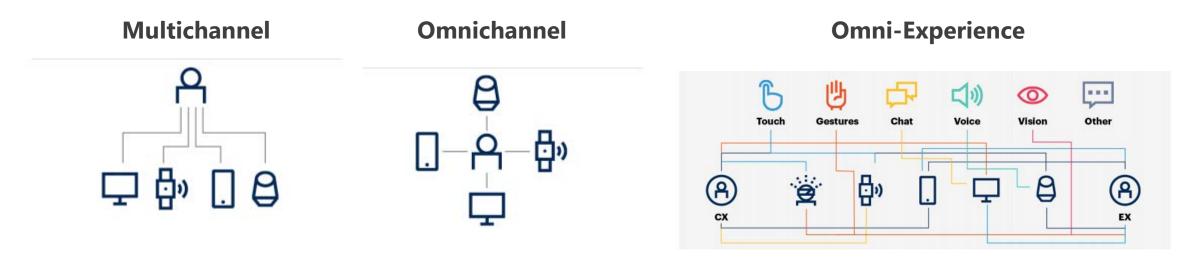
- AI/Analytics Higher volumes of data
- Many new modalities, all integrated

Accelerating Segments

- Conversational AI
- Customer Analytics
- AR/VR
- Cloud Contact Centers
- Omni-experiences

Omni-Experience

AUGMENTED, MULTI-SENSORY INTERACTION WITH TECHNOLOGY EMBEDDED IN DEVICES AND PHYSICAL WORLD



Ву 2023...



will be using voice, images and AR for interacting with brands with their mobile device, extending physical and digital experiences **45%** will exploit Smart Personalization for contextbased customer engagement, utilizing AI, Big data and conversational computing



Security & Privacy

MORE PEOPLE ONLINE MORE OF THE TIME INCREASES RISK

Rising Trends

Market

- Anywhere Access Shift to ecommerce
- Consumer Privacy Regulation coupled with conf/video/surveillance way up

Business

- Customer Experience
- Ethics & Trust Part of brand pushed by COVID communications

Tech

AI/Analytics - More complex, higher volume of data

Accelerating Segments

- Data Privacy Management
- Integrated Risk Management
- Network Security



Supply Chain

JOLT TO SYSTEMS CREATES RUSH FOR IMMEDIATE VISIBILITY AND FLEXIBILITY

Rising Trends

Market

- Globalization, the world in pandemic
- Anywhere access , everyone remote

Business

- Agility, flexibility and visibility
- Borderless workforce, distributed teams

Tech

- IoT/Edge, process/manage the supply chain
- Robotics automate and augment for efficiency, safety, business continuity

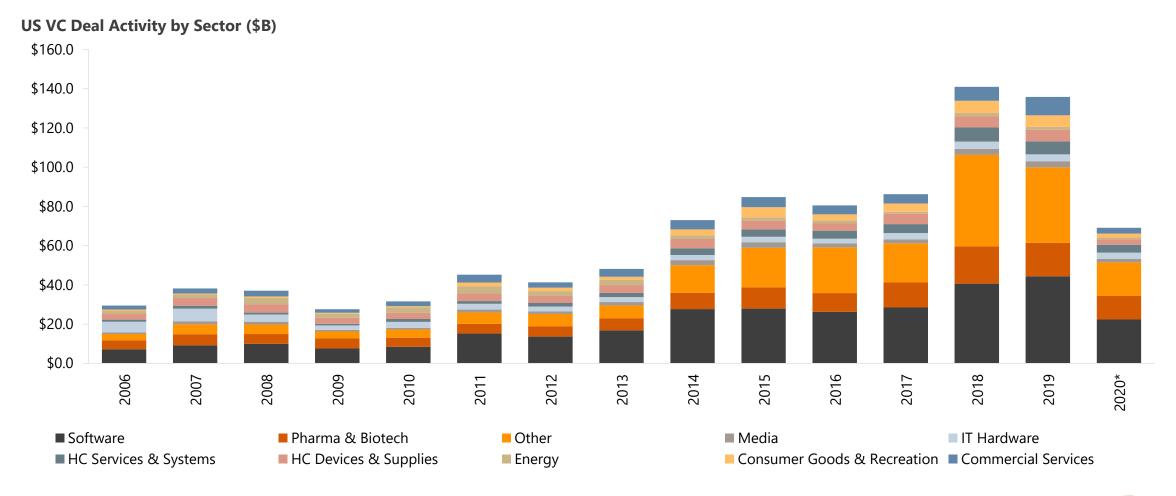
Accelerating Segments

- Supply Chain Management
- IoT Software (Asset Management, Fleet Management)
- Al-assisted Humans / analytics / RPA



How COVID is Impacting Venture Capital Investing

CAPITAL INVESTED ON PACE WITH 2019, EVEN AS DEAL COUNT FALLS – BIO/PHARMA TAKING LARGER SHARE





B2B Tech Deal Volume Down Slightly During Pandemic

BUT VALUATIONS HAVE INCREASED - POSSIBLE NEW PEAK IN 2020



US VC B2B Tech Deals by Year

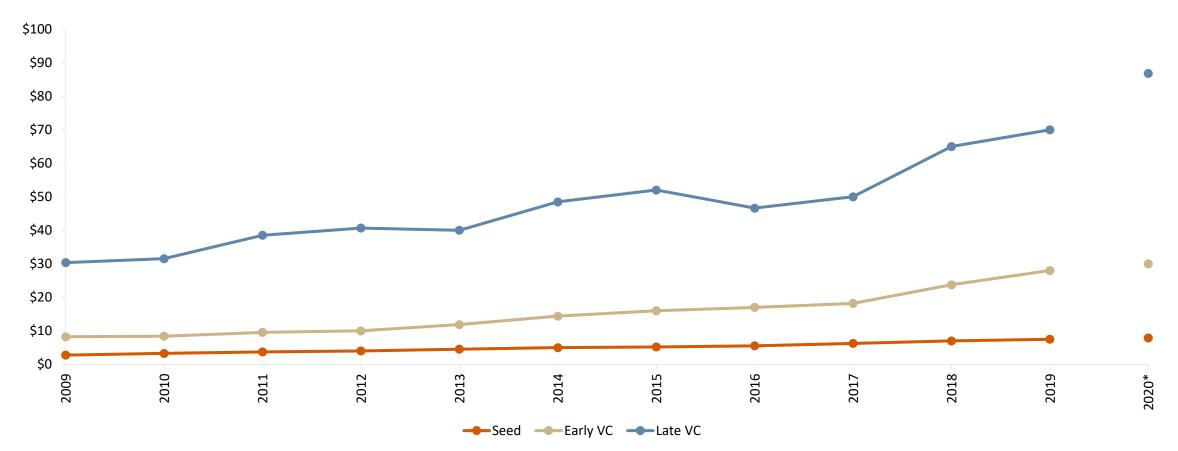
B2B Technology companies are defined as companies offering technology-focused or technology-enabled solutions and whose customers are primarily other businesses.



But Seed Valuations Declined for First Time in 10 Years

LATE STAGE FINANCINGS SEEING EXTRAORDINARY ONGOING LIFT

US VC Median Pre-Money Valuation (\$M) by Stage



Illuminate's Interns 2019-2020





Sneak Preview: Survey & Whitepaper Update

FORTHCOMING FALL 2020: "TODAY'S MBA STUDENT IS TOMORROW'S ENTREPRENEUR"

Background

- 3rd in a series of collaborations with Tepper students
- Ongoing goal to understand entrepreneurial opportunity, with a gender lens
- Focus on MBA students direct outreach to two dozen highly ranked programs in the US
- Assisted by Poets & Quants (> 2M month visitors reaching 85% of MBA population)
- Over 500 responses, 22 MBA programs, >65% diverse including >30% women

Tepper	Students	
This	Paper:	

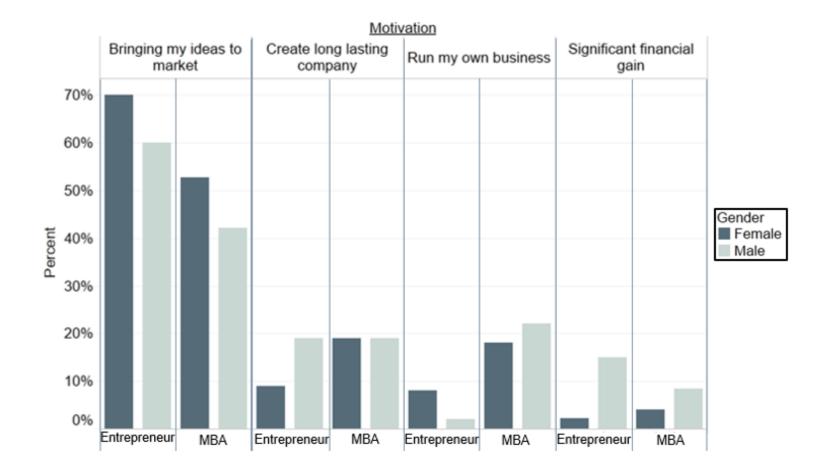
Cara Giannandrea Tepper 2021

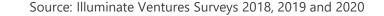
> Natalie Gerber Tepper 2020



Top Motivations to Choose Entrepreneurship

CURRENT ENTREPRENEURS AND MBA STUDENTS HAVE SIMILAR REASONS TO BE FOUNDERS





Differing Views on Barriers to Entrepreneurship

STUDENTS, ENTREPRENEURS AND VCS SEE THE BARRIERS AS HAVING VERY DIFFERENT LEVELS OF IMPACT

Barrier	Female MBA	Male MBA	Female Founder	Male Founder	Female VC	Male VC
Concerns re: financial security	1	1	2	1	5	8
Access to startup capital	2	2	1	2	2	3
Access to the right networks	3	3	7	13	13	6
Having a unique idea	low	low	3	6	1	2
Acquiring Credibility/trust	4	4	4	3	10	4



Thank you!



Cindy Padnos <u>www.illuminate.com</u> @IlluminateVC

