



Artificial Intelligence in Finance
at
Hong Kong University of Science and Technology

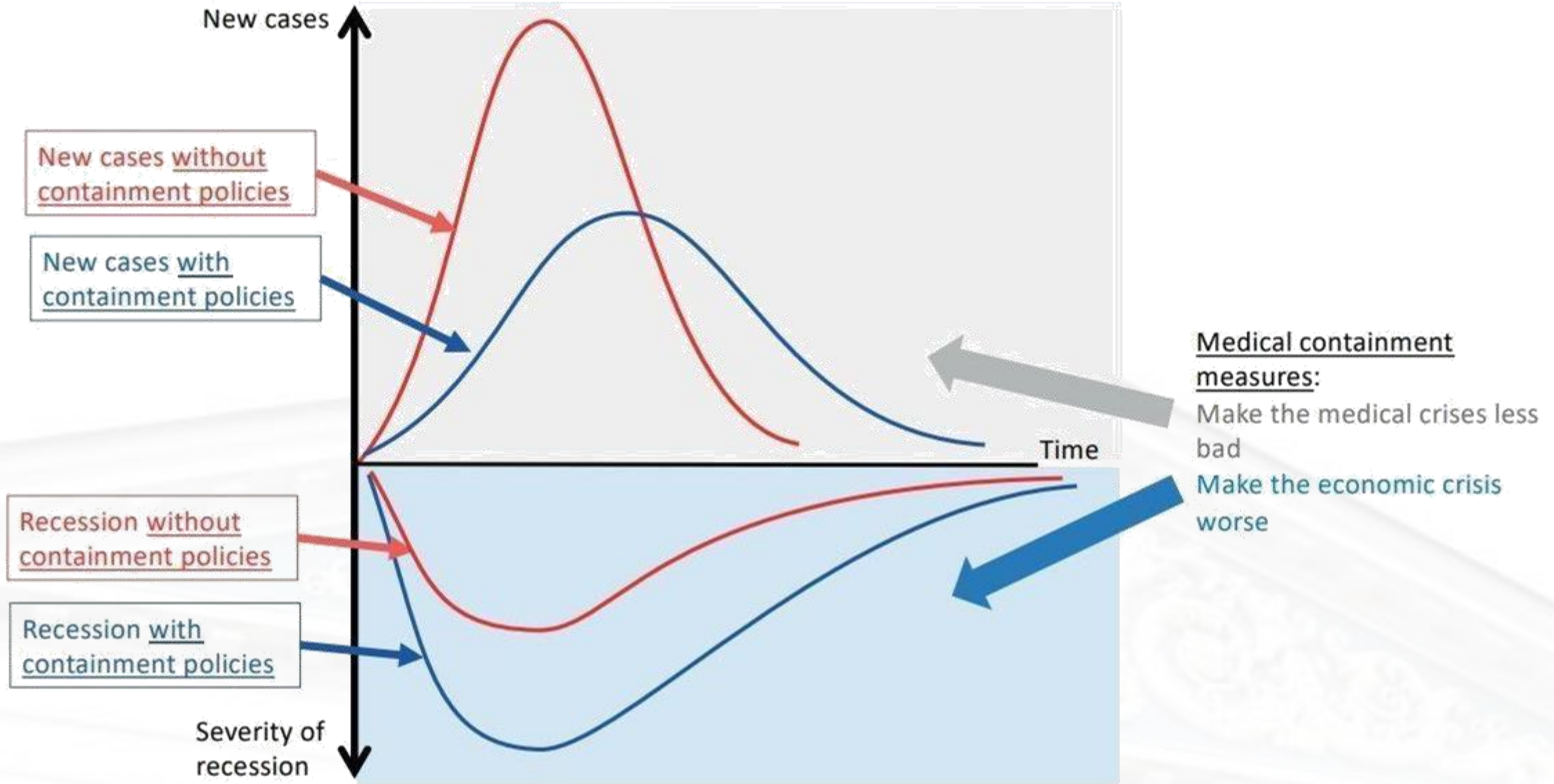
Assignment II: Monthly Article Review

- Optional and due on March 31, April 30, and May 31
- 1-2 articles every month from top journals (e.g. NIPS, ICCV) in the past 5 years
 - Maximum of 6 articles in total for the whole semester
- 1 page review with the following components:
 - Abstract in simple language (in words that your grandmother will understand)
 - What is good about the article or research approach?
 - What may not work regarding the research?
 - What are the potential applications of the research findings?
- More details to be announced soon

Perspectives on the Global Markets

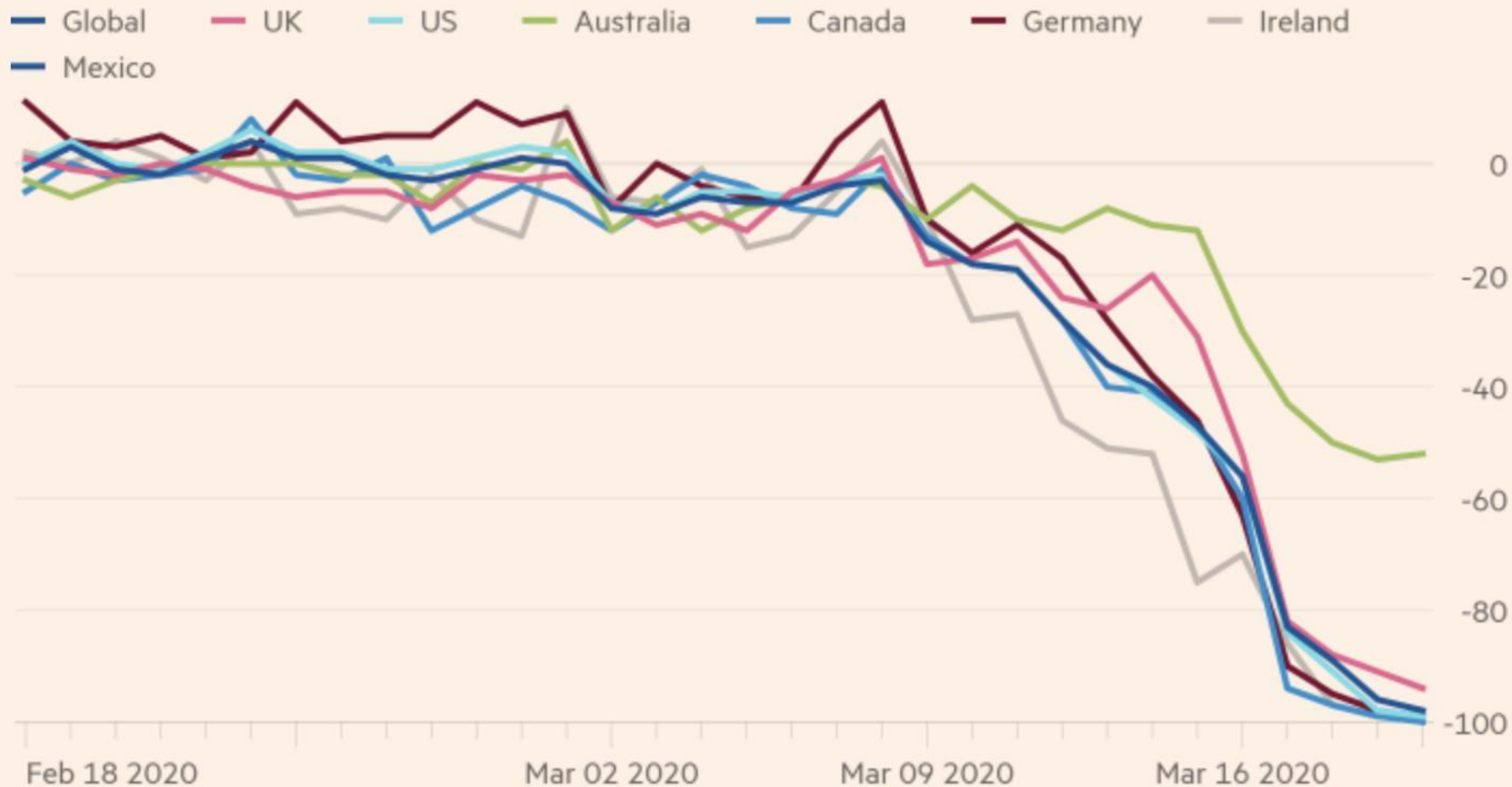
- Healthcare (virus and R_0) as the epicenter vs. finance (subprime and derivatives)
- Fundamentals are strong with corporate balance sheet healthier than the previous crisis
 - Underweight: Transportation, retail, hospitality, F&B
- US (and global) markets jittery, partly because of the (Trump) administration
 - Fed Funds Rate no longer effective and may yield to Quantitative Easing (QE)?
 - **Is “Unlimited QE” possible?**
- **Buy-side will likely fare better than sell-side**
- Capital preservation and self preservation
- **Ray Dalio: The Changing World Order**

Containment policies flatten the medical curve, but steepen the recession curve



Restaurant bookings have collapsed

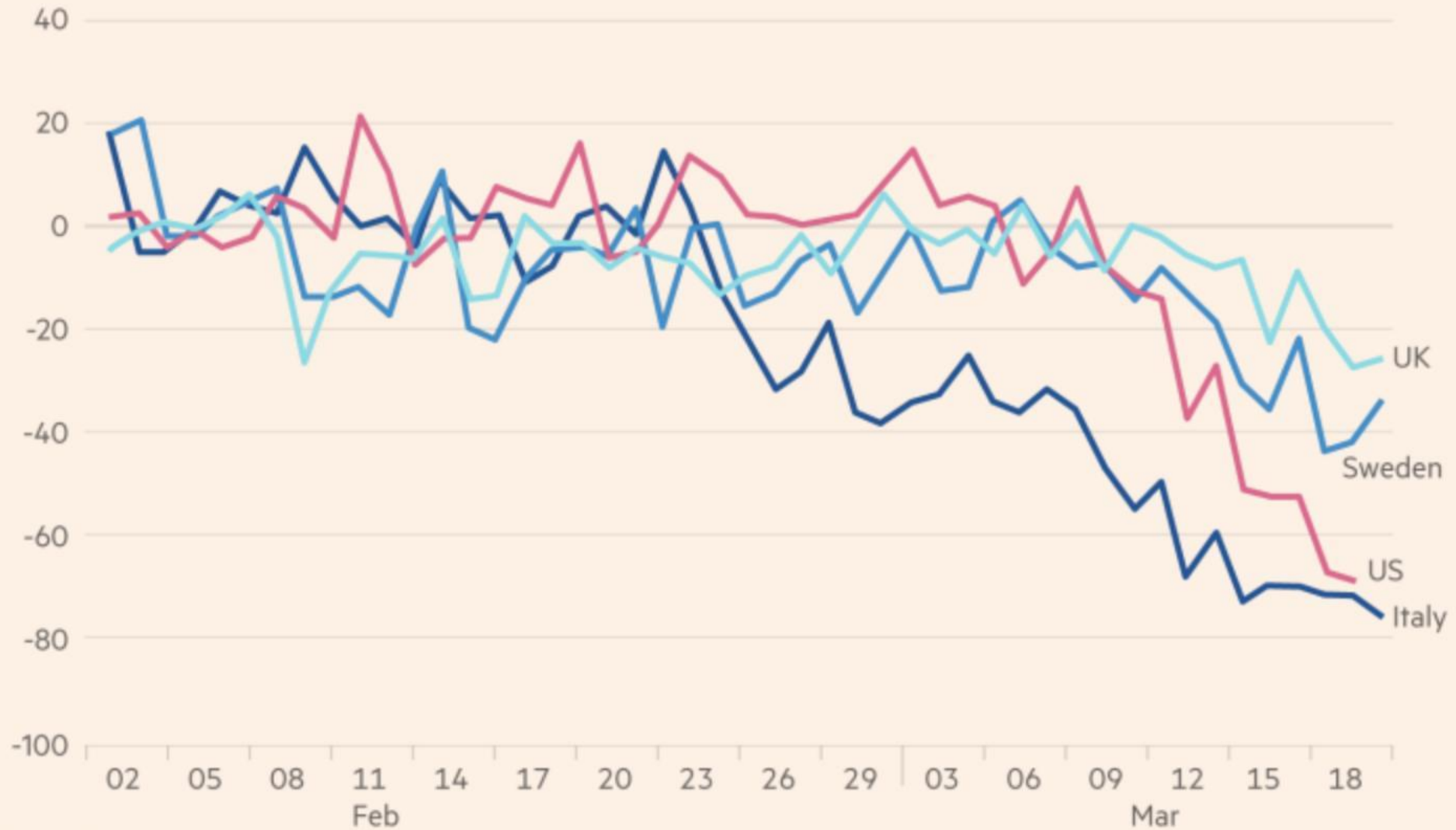
Bookings for seated diners (% change on same day of the week a year before)



Source: OpenTable
© FT

The retail sector takes a hit

Year on year change in footfall (%)



Source: Springboard
© FT

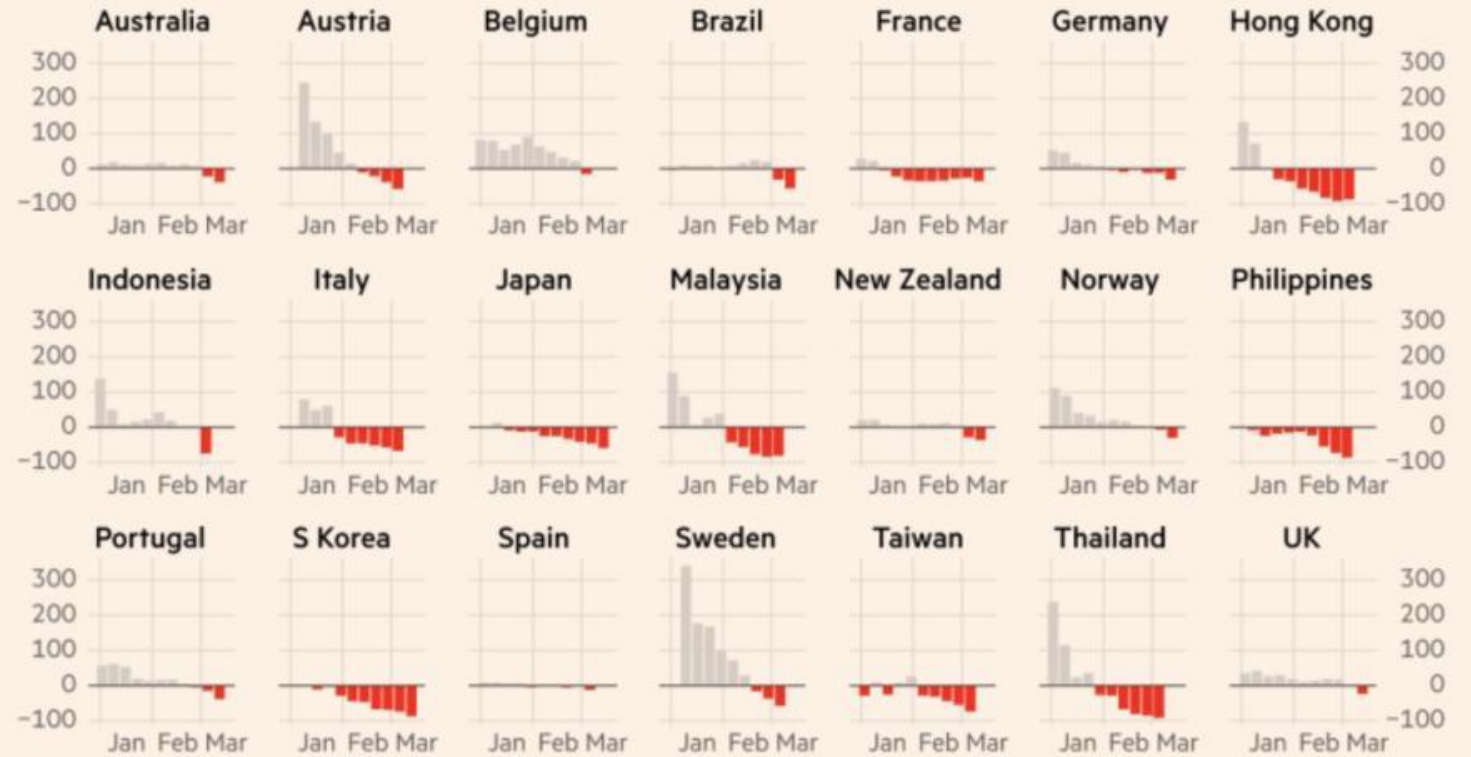
Across the world, movie theatre audiences vanish as coronavirus takes hold

Year-on-year change in box office revenues (%)

US: seven day rolling average



Rest of the world: four-weekend rolling average



FT graphic: John Burn-Murdoch / @jburnmurdoch
Source: Box Office Mojo
© FT

Global flight numbers have dropped

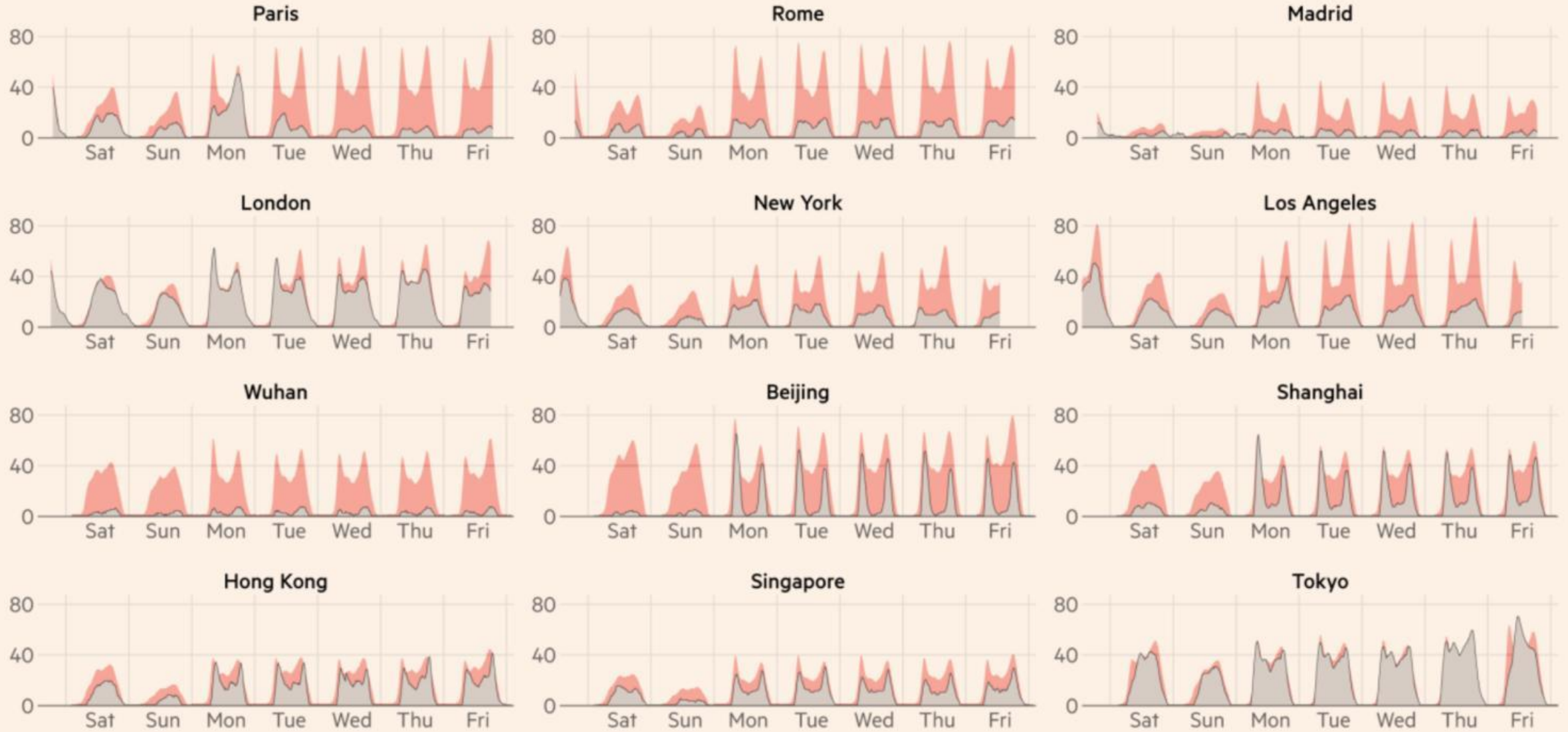
Flights per day (7-day moving average)

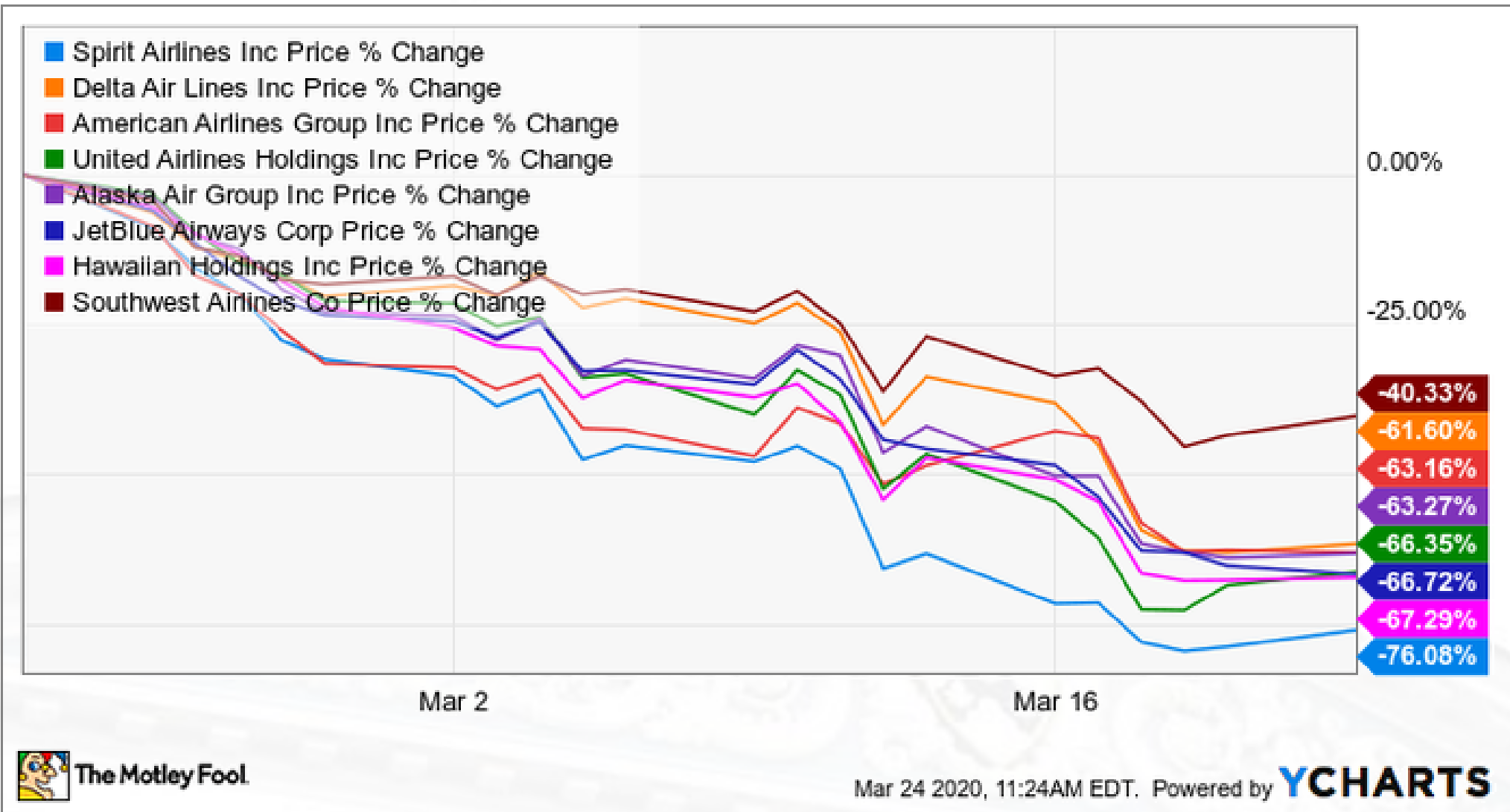


Source: Flightradar24
© FT

Roads are emptying across the world

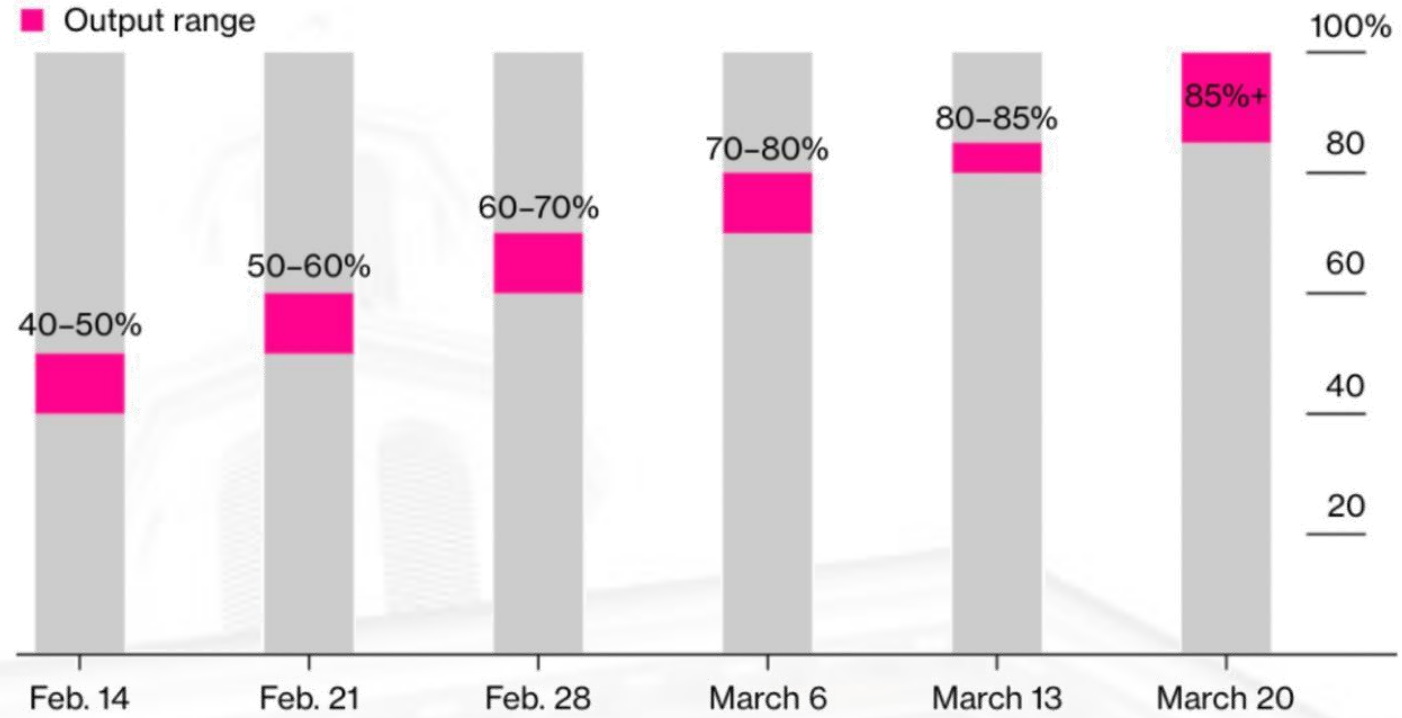
TomTom traffic congestion index, last seven days vs historical average (%)





China Gets Back to Work

Economic output as a percentage of normal rate, by week



Source: Bloomberg Economics



Job Search in Finance & Banking

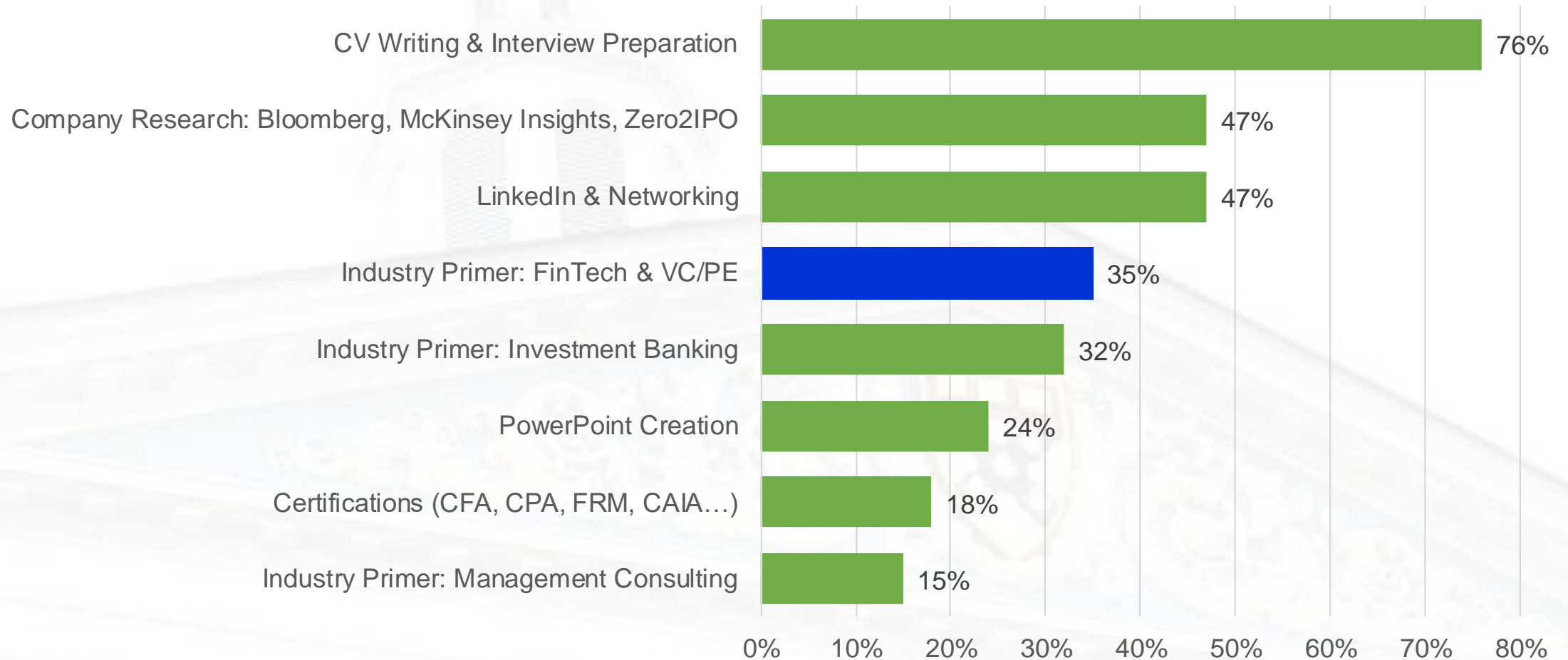
- While the nightmare of the virus is undoubtedly making hiring harder, some recruitment is therefore still taking place. When we asked today, various banks categorically denied having a hiring freeze now. They include: **Goldman Sachs, Morgan Stanley and Deutsche Bank.**
- **UBS, HSBC, Credit Suisse** and **Barclays** did not respond to a request to comment on whether they have a hiring freeze. **Bank of America** declined to comment on the issue.
- As staying healthy takes precedence over everything else, some headhunters told us this morning that they are simply taking a three month sabbatical: calling to pitch for business or persuade candidates to move can seem crass in the circumstances. And with interviews necessarily taking place by video it is hard to get a final sign-off anyway.

Job Search in Finance & Banking (Cont'd)

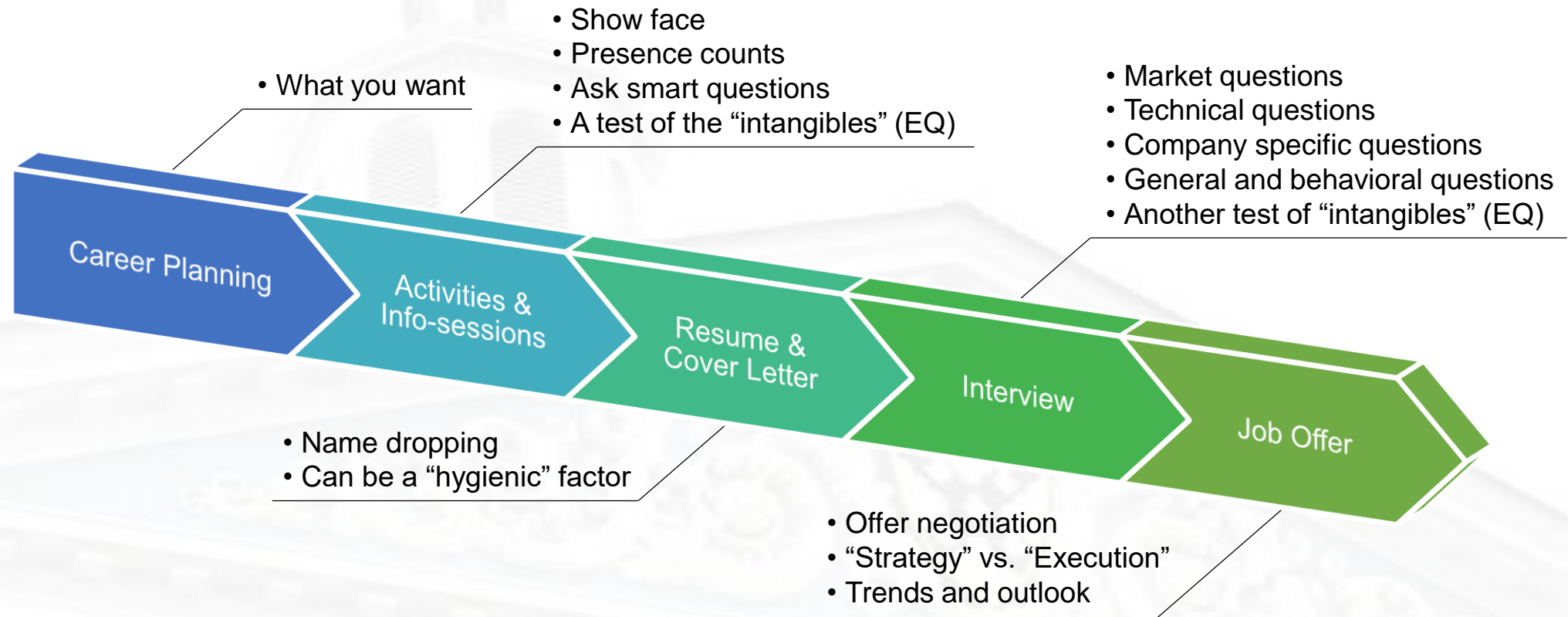
- If hiring is still happening anywhere, however, it's in technology as banks progress with automation plans. One technology MD at JPMorgan told all change initiatives have been put on hold now, but most banks still need to make technology hires as they rely more heavily upon tech infrastructure for working from home. Adam Francis, a senior technology recruiter at Experis says financial markets technology hiring is proving resilient so far, particularly in terms of software engineering. **“A handful of buy-side and sell-side firms have really taken the initiative and seem to be recruiting as much as ever, conducting interviews and onboarding, and even having staff or contractors start remotely from day-one,”** he adds.

Beyond the Classroom

Topics of Interest
(n = 34)



Career Roadmap & CV Clinic



Investment Banking Essentials

Academics



GPA

Classes

Exchange

Internships



Morgan Stanley

J.P.Morgan



Technicals

- Financial Statement Analysis
- Macroeconomics
- Valuation
- Corporate Finance
- Financial Mathematics

Aug 2011 – May 2013	MORGAN STANLEY ASIA Associate, Investment Banking Division – Hong Kong Corporate Finance Coverage Team	HONG KONG, CHINA
	<ul style="list-style-type: none"> • Shangri-La Asia inaugural issuance of US\$600MM under US\$3Bn Medium Term Note Program • Multiple senior unsecured bond offerings for Hong Kong corporates, such as Kerry Properties (US\$600MM), Hang Lung Properties (US\$500MM), Nan Fung (US\$300MM), and PCCW (US\$500MM) 	
Summer 2010	Summer Associate, Investment Banking Division – Technology, Media & Telecommunications Group	
	<ul style="list-style-type: none"> • US\$272MM IPO of Dangdang Inc., China’s largest B2C e-commerce company (equivalent of Amazon) 	
2006 – 2009	J.P. MORGAN CHASE & CO.	
2008 – 2009	Investment Strategy Analyst, J.P. Morgan Private Wealth Management	NEW YORK, NY
	<ul style="list-style-type: none"> • Sole analyst directly supporting the global Chief Investment Officer (CIO) and Chief Economist of PWM 	
2006 – 2008	Financial Analyst, J.P. Morgan Private Bank	SAN FRANCISCO, CA
Summer 2007	Financial Analyst, J.P. Morgan Private Bank, EMEA Equity Derivatives Group	LONDON, UK
Education		
2015 – 2016	UNIVERSITY OF HONG KONG Master of Science in Information Technology in Education (Specialist Strand: e-Leadership), <i>Distinction</i> .	HONG KONG, CHINA
2009 – 2011	HARVARD BUSINESS SCHOOL MBA. Co-producer, Asian Cultural Show. Advisor, Harvard Innovation Lab (iLab)	BOSTON, MA
2002 – 2006	UNIVERSITY OF CALIFORNIA, BERKELEY – HAAS SCHOOL OF BUSINESS BERKELEY, CA Bachelor of Science in Business Administration, <i>summa cum laude</i> (cumulative GPA: 3.9, top 3% of class). Dean’s Honor List (02-06). President, California Investment Association (Haas-sponsored investment fund)	
Technology- related Certifications	<p>Certificate on Machine Learning for Big Data & Text Processing at MIT Computer Science and Artificial Intelligence Laboratory (CSAIL). Certificate on Deep Learning and Machine Learning with TensorFlow. Certified Bitcoin Professional (CBP). Conducted research into Probabilistic Topic Modeling using R</p>	