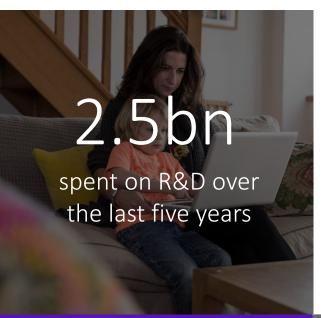


Disruption, Dolly, Dilbert & Droids: the 'D's reshaping the future of work & the contact centre.

Dr Nicola J. Millard Principal Innovation Partner at BT nicola.millard@bt.com @DocNicola

BT's research and innovation

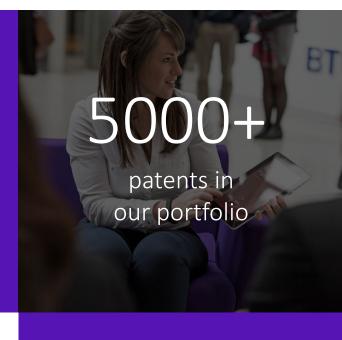


3rd

largest investor in R&D in the fixed line telecoms sector over past ten years

3rd

largest investor in R&D in the UK over past ten years



13k

scientists employed worldwide



30+

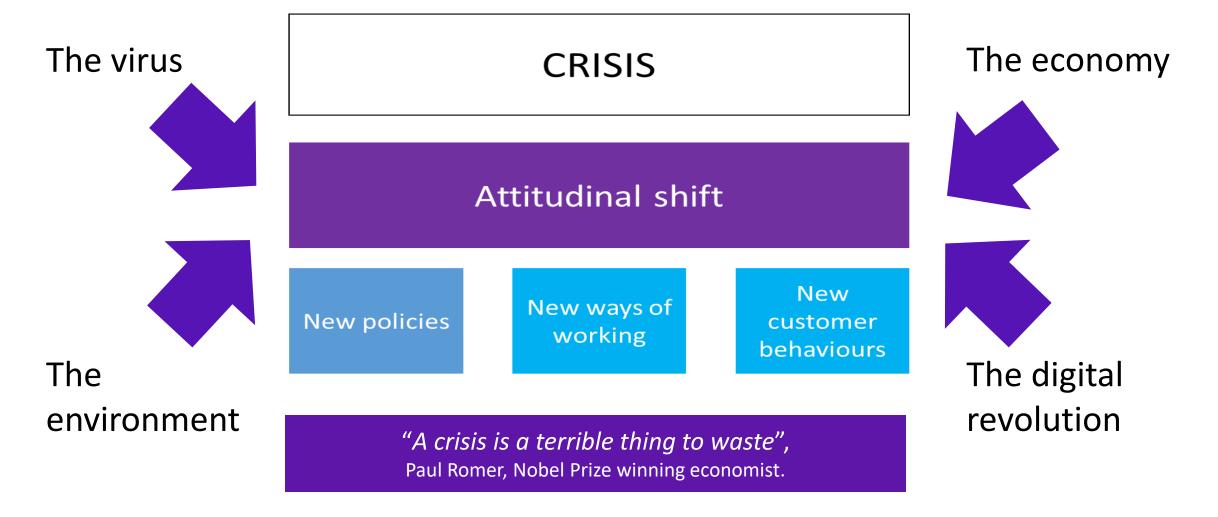
direct university research relationships

4th

highest number of patents filed with the European Patent Office by a UK-based company

Copyright: British Telecommunications PLC, 2020

Disruption: why this crisis is different.





The Death of **Dilbert**: a view from 1992...

11 volunteer directory enquiry advisors. Cutting edge technology:

- Specially designed workstation
- Headset
- Communications control panel
- Videophone
- 2x64 Kb/s ISDN digital channels
- E-mail
- Management Information Systems (MIS)
- Electronic bulletin boards
- Storage unit/ desk

Cost per installation - £11,000!

Operators enjoyed working at home – more time with family & less stress.



Results:

- Service levels improved
- Greater flexibility for peaks and troughs
- Better resilience
- Better skills retention
- Need to maintain systems
- Effective supervision vital
- The myth of the lonely and isolated teleworker "I've taken to cooking a lot more and discovered who our neighbours are".
- BUT too costly to sustain!!!



Top tips for successful homeworking...by BT's veteran homeworkers.

Build a workspace that suits you and your environment



2. Establish a routine, set goals and know when to switch off



Keep healthy and don't feel guilty for taking breaks



Connect with colleagues, have virtual coffees, and re-create 'watercooler' moments



5 Make remote working less remote by using technologies effectively







The death of **Dilbert**:

what does the office/contact centre of the future look like?

Co-working



Homeworking

Office based

Activity based working

"The assumption in most organisations previous to the pandemic that you had to seek permission to work remotely switches to you have to seek permission to work in an office" Matt Ballantine.

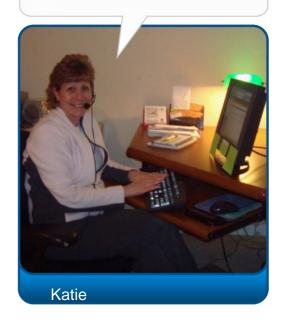
Home advisors: views from the front line...

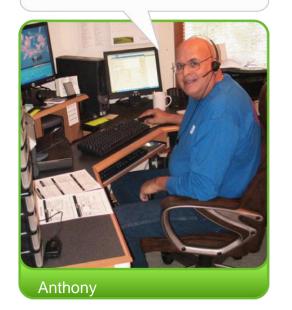
I'm able to bring in extra income and with the flexibility it gives me it does not interfere with my first job as a stay-at-home mum

I enjoy the opportunity to work from home - the commute is short and I never have to worry about traffic!

I'm semi retired.
Working from my
home, part time allows
me a schedule that not
only supports the
company but also fits
with my personal
schedule







VR & AR for recruitment, remote diagnostics, training and collaboration





AR for remote diagnostics, training and collaboration

Copyright: British Telecommunications PLC, 2020

VR for



The Death of **Dolly**: Productivity, collaboration and wellbeing

- **Techno-overload** ("too much"): information overload and multi-tasking.
- Techno-uncertainty ("too fast"):
 work and technology changes are too fast to keep up with.
- Techno-complexity ("too difficult"):
 people are finding their technology too complex and intimidating to use.
- **Techno-invasion** ("always-on"): Pressure to be constantly available.
- **Techno-insecurity** ("paranoia"): people feel insecure in their job.



Copyright: British Telecommunications PLC, 2020

Source: Tarafdar, M. Tu,Q. Ragu-Nathan, T.S. & Ragu-Nathan, B.S. (2011), Technostress: Crossing Over to the Dark Side, Communications of the ACM, Vol. 54 No. 9, Pages 113-120.

The rise of the **Droid**: what do execs think about AI and robotics?

56%

Fear the risks to job security associated with robots and Al

67%
Say it would be good to get help from Al in my job

23%

Believe that Al's biggest impact will be in the optimisation of business processes

3 in 5

Agree emerging technologies will mean people work less hard in the future

53%

Say it would be fairer if algorithms and Al agents managed people's work

37%
Agree that they would rather talk to a robot rather than their boss!

Copyright: British Telecommunications PLC, 2020

Source: DaviesHickman, 2018, BT Corporate Future Research, 697 UK execs

The "SuperAgents" of the future?



Trainers* Explainers* Sustainers*



^{*} H. James Wilson, Paul R. Daugherty, and Nicola Morini-Bianzino (2017), The Jobs That Artificial Intelligence Will Create, MIT Sloan Review, 23rd March



Albert Einstein (allegedly)

and brilliant. Together they are

powerful beyond imagination"

Thank You

Dr Nicola J. Millard Principal Innovation Partner at BT nicola.millard@bt.com @DocNicola

