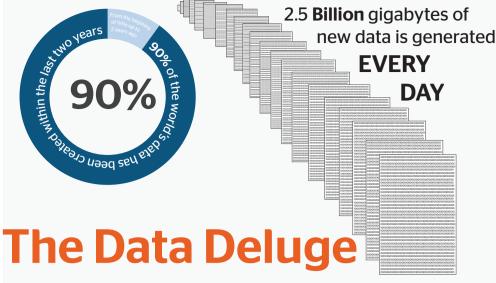
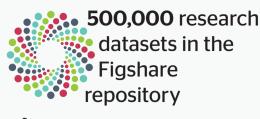
#### Research Data Management: The Numbers



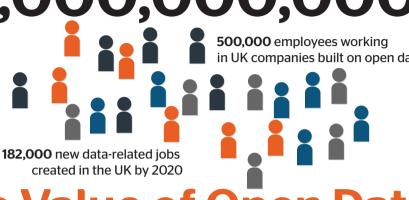






3,000,000,000,000

Estimated value of open data to the world economy



## The Value of Open



Less than 50% of clinical trial results are currently published and shared

Only 20% of scientific data from the 1990s is still available

### Research Quality and Efficiency

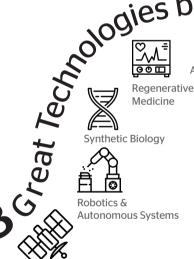


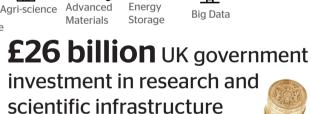


replicated JK Investment in Research Rologies built upon data



Every pound invested by Research Councils UK generates a 10 fold Return on Investment





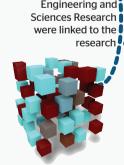
over the next 5 vears



**50%** of researchers are already sharing data!



61% of recent papers the Engineering and Physical Sciences Research Council were linked to the underlying research data



Over half of the top-ranked science and social science journals either mandate or strongly suggest researchers share the data that relates to the publication

**75%** of researchers strongly favour formal citation of data as a reuse indicator



**EMBL-EBI** 

£920 million Estimated return on investment per annum



on future research enabled by the European Bioinformatics Institute



# The value of Research Data

#### How big is big? 1 plain text character can be

1 byte of data

a Typically, in written English, 1000 characters would equate to about 175 words This can be thought of as 1 **kilo**byte of data

is about 3 kilohytes of data That's the equivalent of a

333 pages (a stack about 33 mm.

high—a little more than half a ream) equates to 1 **mega**byte

1 **giga**byte Our stack is now about 33 m-the length of a blue whale—high. That's about 1 ½ CDs of mp3 music tracks (about 150). These days even basic smartphones have a capacity in the 10s of

333,000 pages equates toli

We've penetrated the Stratosphere.

At 1 terabyte our paper stack



generated about CERN produce 30 3.5 zettabytes of data

fill an old 5 1/4 inch HD floppy disk We provide relevant and useful advice, digital content and network and IT services, while we research and develop new technologies and ways of working. Find out more at jisc.ac.uk