German Spectrum Scale User Group
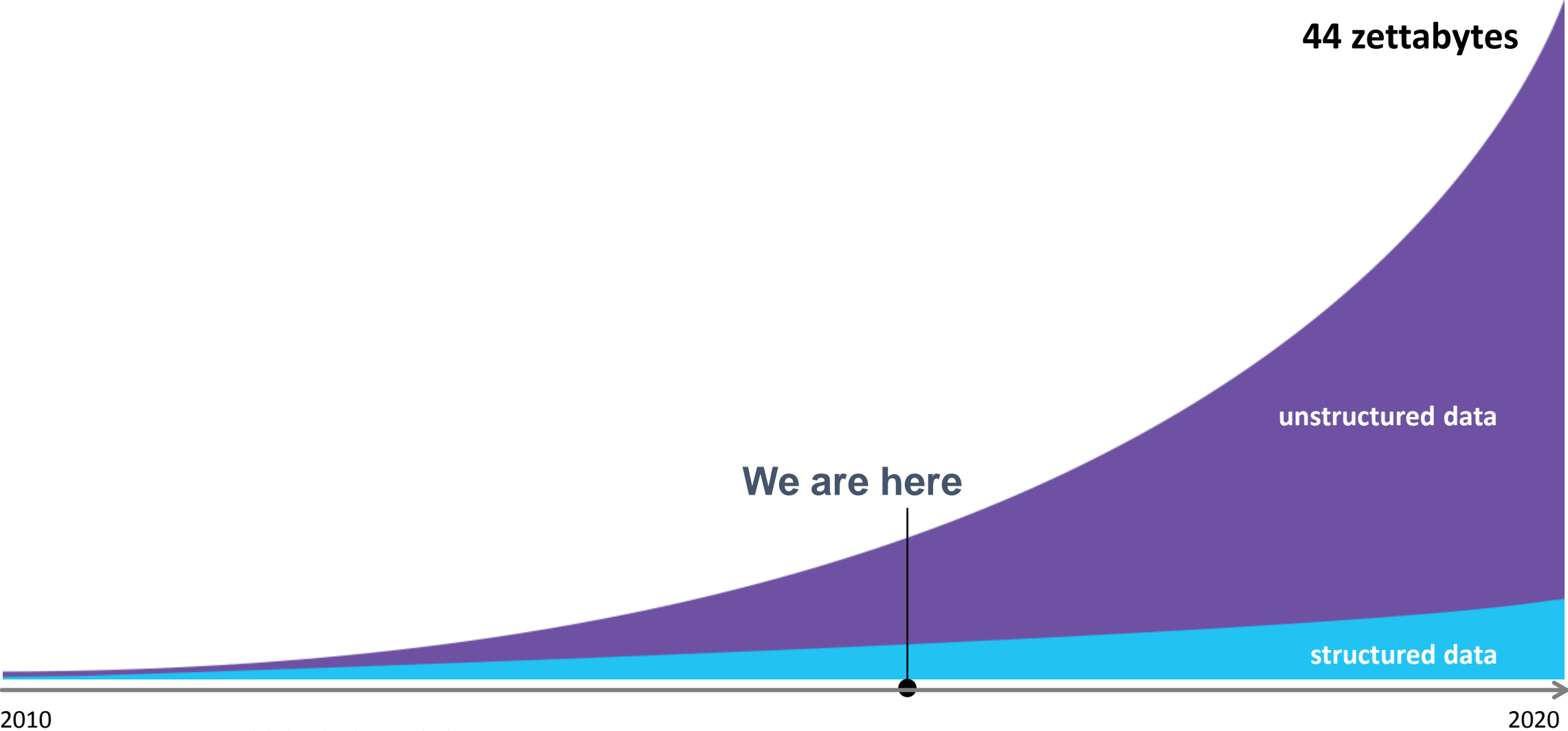
March 2017

Doris Conti, Director of Spectrum Scale and HPC SW Development
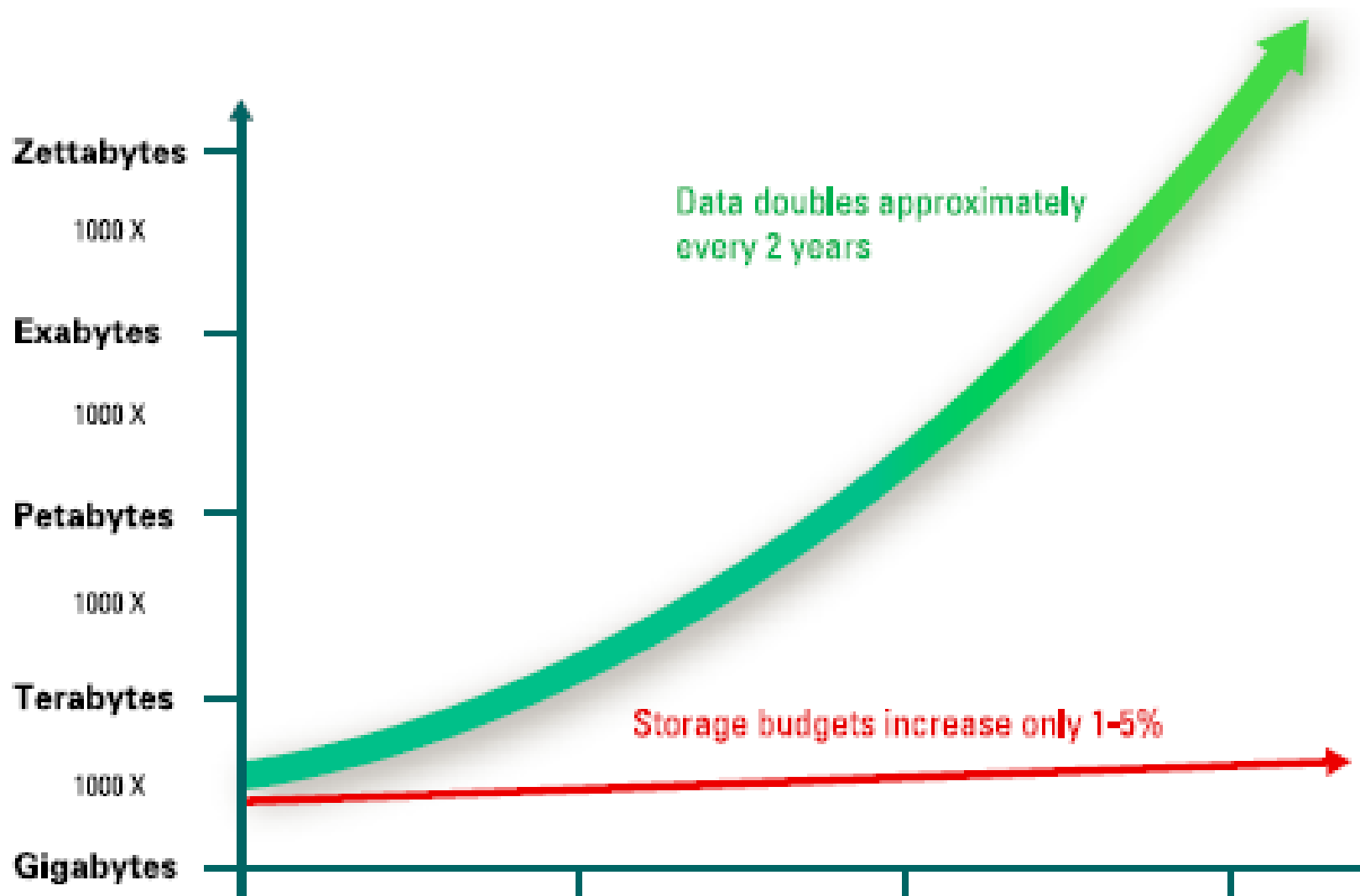
IBM

Poughkeepsie NY

Data Growth is Exponential – Demands New Technology & Strategy

44 zettabytes

unstructured data

We are here

structured data

2010

Source: IBM Global Technology Outlook

2020

Data Growth is Outpacing Traditional Approaches to Keep Up

Past User Group Input

- How much data do you manage?

- With how many people?

- How much data do you read / write per day?

- The maximum number of storage administrators was 3 on staff

- Data Managed as reported by:
  - US Chicago User group - **5.35PB/Admin**
  - UK User group: avg 3.33PB/Admin
  - NYC/SPXXL: avg. 3.91PB/Admin

- Many clients didn't know data flow per day. Sites that use the Scale don't track performance load. In Chicago, we heard from one site reading or writing an impressive 5PB/Day of data, with the average being **over 1PB/data per day.**

Where is Spectrum Scale Used Today

- Banking and Financial Services – fraud prevention, check truncation, regulatory compliance

- Insurance – Policies & underwriting

- Media and Entertainment – radio and television, Remote DVR

- Petroleum – Seismic data ingest and analytics

- Smarter cities – Video surveillance

- Automotive – Crash test recording, autonomous driving, etc.

- Defense / Military – flight recording, threat assessment

- Public / Government – Police recording of chases and on person cameras

- Satellite Image archival

- Telecom – Call Detail Records

- Life Sciences and Pharmaceuticals – Genomics

- Hospitals – Medical images

- …