# Big Data for the smaller organisation

TFMA 2015

Terry Hogan Golden Orb

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#### What is "Big Data"?

## 45,000,000,000,000,000,000

bytes of consumer internet traffic per month
 80% of data created in the past 12 months

# What is the relevance of **Big Data** to smaller businesses?

- New analytical capabilities
   Much is open source
- New sources of data
  - Many free to use
- Real-time data/analysis
  - Adaptive websites
- Reduced cost of entry
  - Low-cost, cloud-based tools

#### **Big Data - why bother?**

- Because it's there!
  - Better insight
  - Better customer service
  - Improved profitability
  - New revenue streams
  - Competitive action











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Platform

-Google Cloud Platform

-Amazon Web Services

Language

-Python, R

-Google Apps Script

Visualisation

-Python/R built-in visualisation

-Google Fusion Tables/Google Sheets

#### -Tableau

#### •Platform

```
import tweepy
auth=tweepy.OAuthHandler(consumer_key="xxxxx", consumer_secret="yyyyy")
api=tweepy.API(auth)
results=[]
for tweet in tweepy.Cursor(api.search, q="#tfma2015").items(500):
    results.append(tweet.text)
```

#### –Python/R built-in visualisation

-Google Fusion Tables/Google Sheets





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•Public tools and data sources

-Google

- Correlate, BigQuery, Custom Search, Prediction
- Public data explorer, shared fusion tables

-Amazon

- Elastic Map Reduce / Hive
- -Open Government Licence

Learning resources

-Coursera

-Roshan data mining videos



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# Thank You

Terry Hogan www.golden-orb.ltd.uk



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