



ADVANCED ANALYTICS: COLLABORATIVELY  
DESIGNED AND DELIVERED



#### About Me

- Over thirty years of "big data"
- Managing Partner Leap Beyond
- Wide variety of roles
- All about the data

# 92%

of analytics pilots fail  
to produce value

- McKinsey 2018

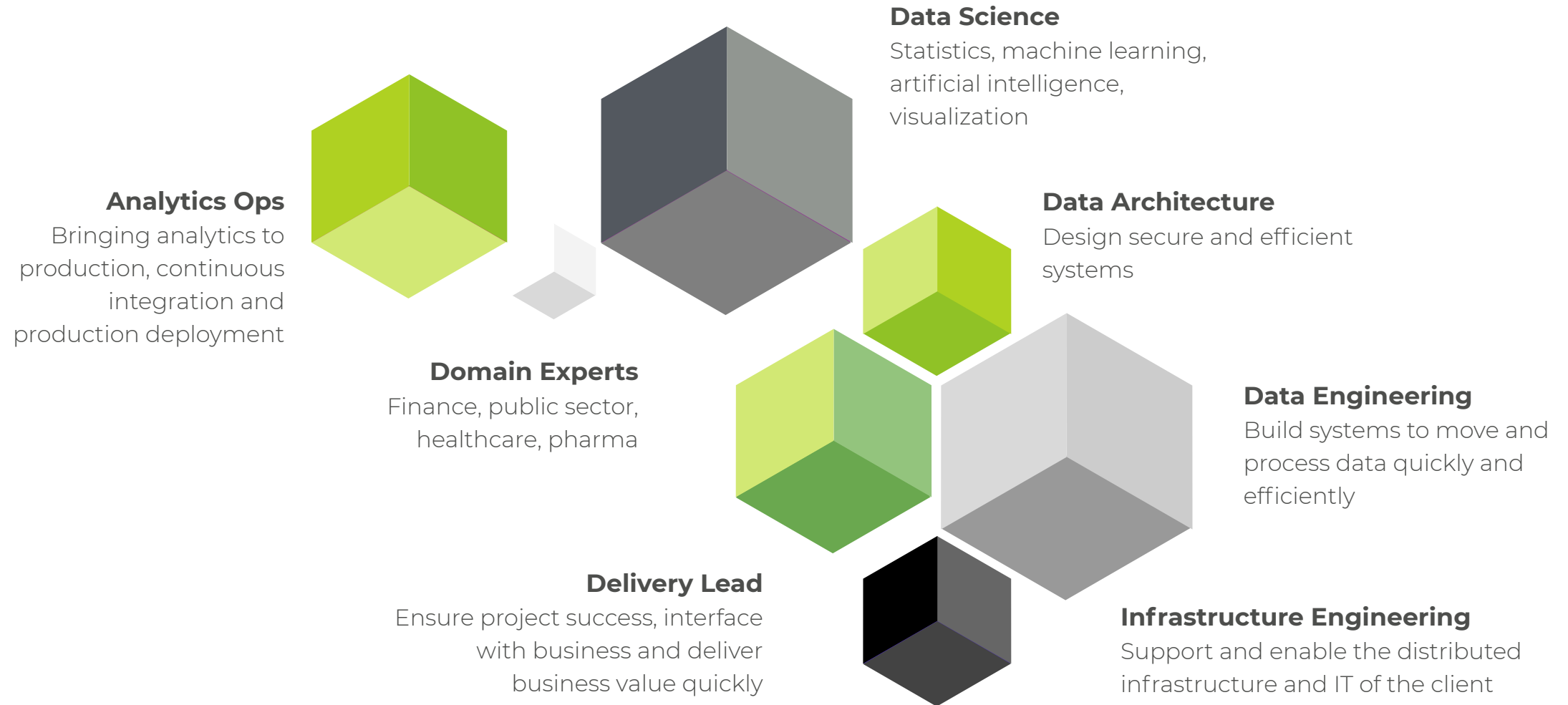


**Come join  
the other 8%**

The right team in partnership  
for continuous value delivery.



# we construct teams **holistically**



# Wasabi vs S3

Is Wasabi cloud storage an  
alternative to AWS S3?

Or is it a valuable partner in  
hybrid solutions?

## What you are going to hear tonight?

01

### What are they?

What exactly is a cloud object  
store?

03

### Do they compare?

Cost comparison, technical  
comparison, and some  
caveats

02

### What is Wasabi?

A pure-play cloud object  
store, with a compelling  
pricing model.

04

### Demonstration!

Let's build a hybrid solution,  
live, and see what breaks.

# what are they?

- Cloud-based object stores
- *that are* arbitrarily scalable
- *and are* highly durable
- *with* Key/Value semantics.

what  
are they?

11 Nines:

99.9999999999%

what  
are they?



SLIDE 8

What does 11 nines of durability really mean?

*"if you gave AWS or Wasabi 1 million files to store,  
statistically they would lose one file every 659,000 years.  
You are about 411 times more likely to get hit by a  
meteor"*



<https://wasabi.com/blog/11-nines-durability>



what  
are they?

Why are key/value semantics great?

- Map directly onto REST semantics
- Map directly onto HTTP verbs
- Map directly onto basic database operations
- Map directly onto in-memory structures
- Very easy to think about



# what is AWS S3?



- Foundational service for Amazon AWS
- released to public in 2006
- early market leader
- often default choice

# what is wasabi?



- pure-play object storage
- compatibility with AWS S3 API
- compatibility with AWS IAM semantics
- created by David Friend and Jeff Flowers
- founded 2015, launched in May 2017

# what is wasabi?



```
$ aws -profile wasabi s3api list-buckets \
    -endpoint-url=https://s3.eu-central-1.wasabisys.com
{
  "Owner": {
    "DisplayName": "rahook",
    "ID": "091E66F1C829410928E7641125C6C29167BE5F5BDF75A946D4543DC6A34536A6"
  },
  "Buckets": [{
    "CreationDate": "2020-03-02T15:56:22.000Z",
    "Name": "rahtest20200302"
  }]
}

$ aws -profile wasabi s3 cp . s3://rahtest20200302 \
    -recursive -include "*.jpg" \
    -endpoint-url=https://s3.eu-central-1.wasabisys.com
```

# how do they compare?



Compared to S3, Wasabi has:

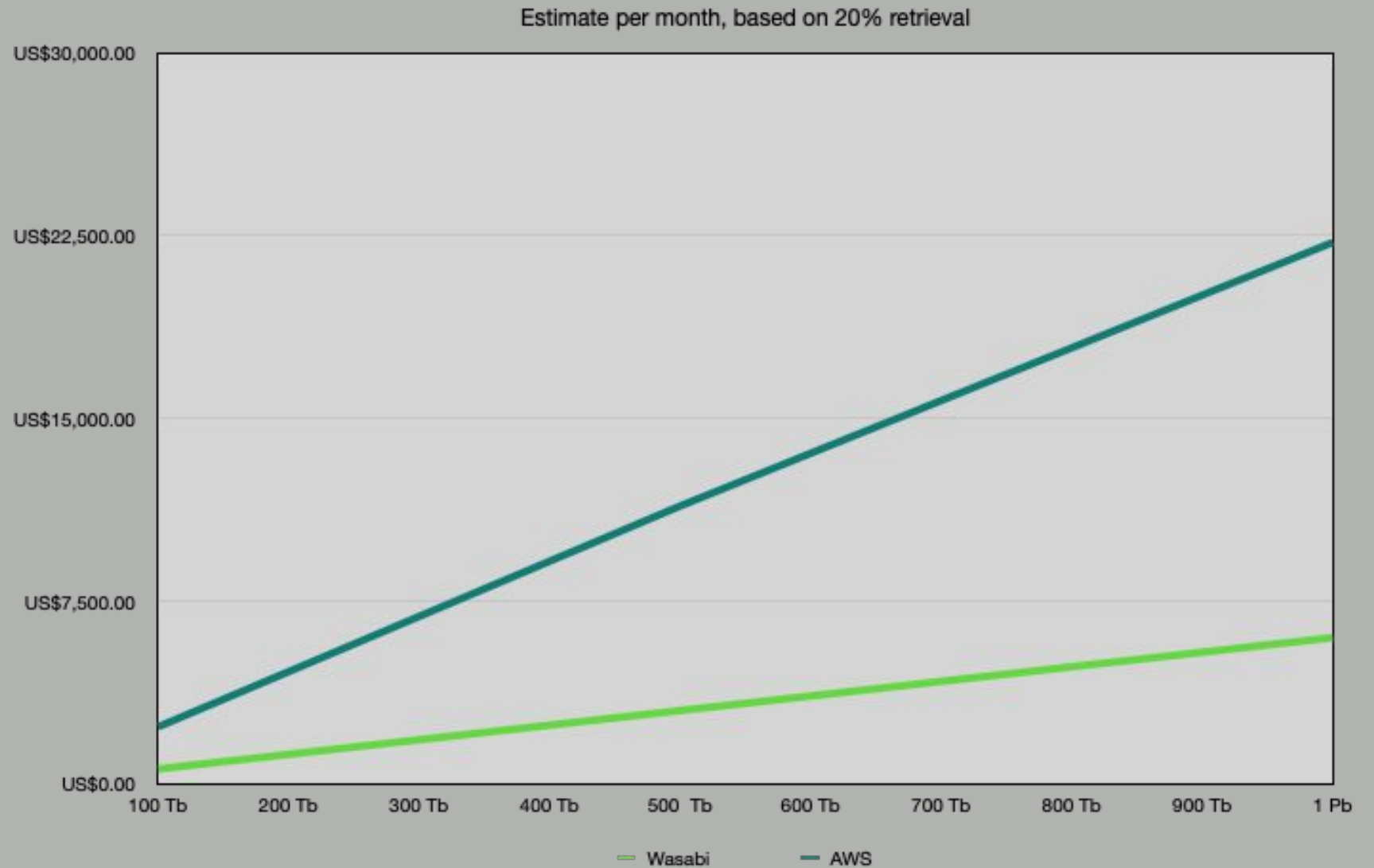
- compatibility with S3
- compatibility with IAM
  - with some extensions
- no direct integration with AWS services
  - Athena, Lambda, etc
  - CloudTrail/CloudWatch
- it's own logging and monitoring
- similar options for private network connections
- fewer data centers

# how do they compare?

## Wasabi *might* be cheaper than S3

- headline figure is 10-20% of AWS S3 costs
- highly dependent on use case and patterns
- easily predictable pricing model
  - \$US5.99 / Tb / Month
  - only charged for storage, not data transfer

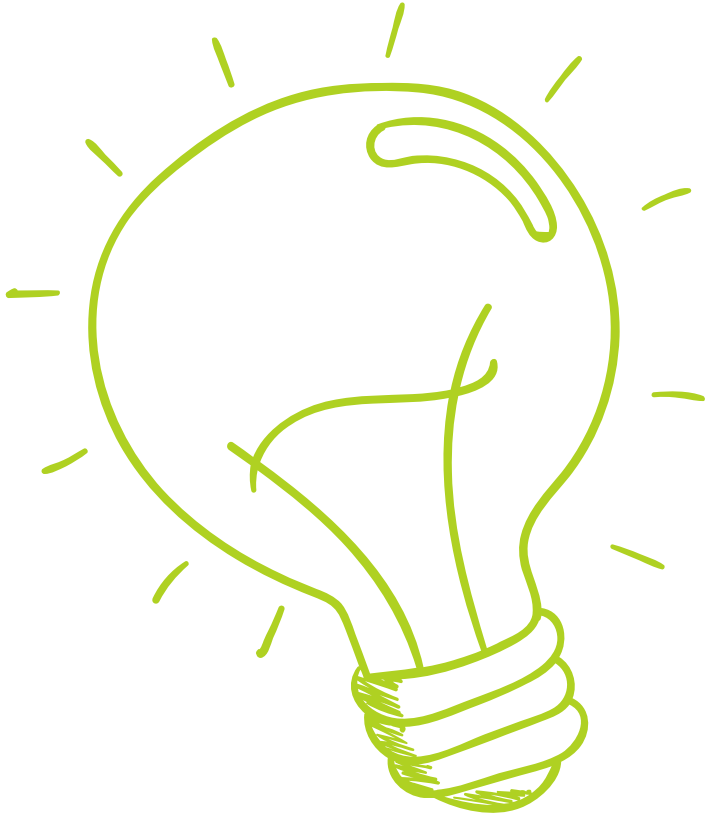
how do  
they  
compare?



Price per Tb per Month, based on  
around 20% of data retrieved

# and now a demonstration

what could possibly go wrong?



I will build a service to archive my photos and generate thumbnails.

01

## **Infrastructure as code**

Repeatable, automatable, secure

02

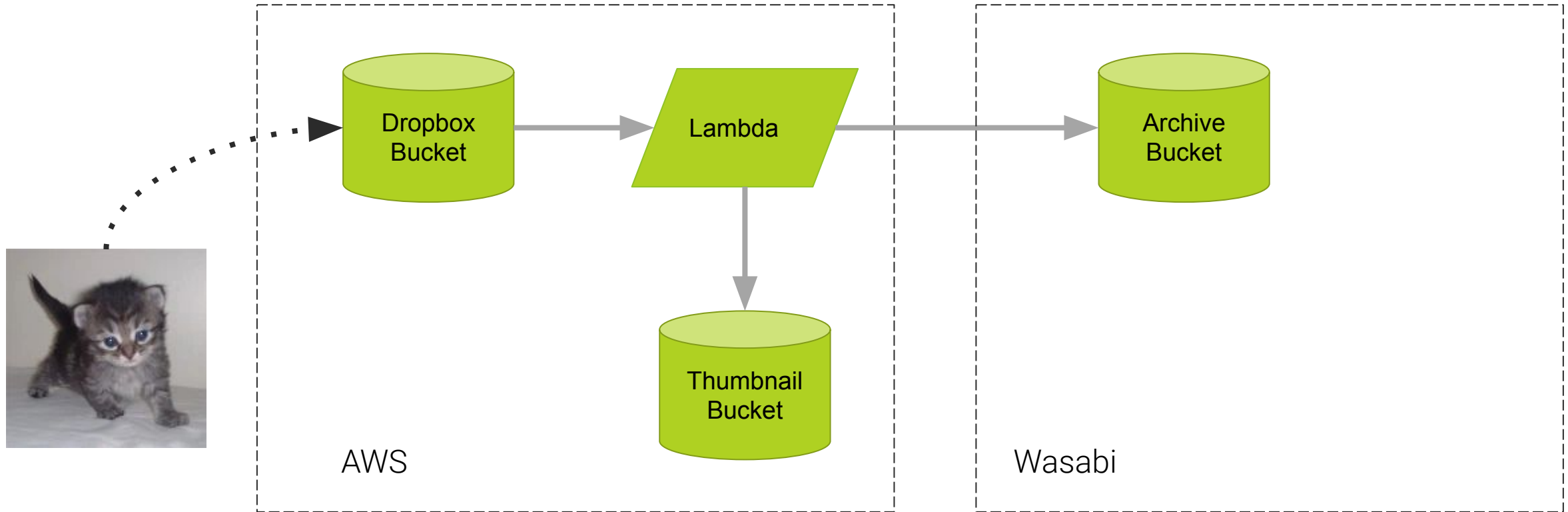
## **Terraform**

Good for hybrid solutions,  
easily portable, easy to learn



# and now a demonstration

what could possibly go wrong?



# what did we just see?

- easy hybrid utilization
- re-use of familiar tooling
- IaC for automation and quick configuration
- compatibility on IAM semantics
- compatibility on API
- choosing Wasabi for archive
- choosing AWS for dynamic data



should we use Wasabi or S3?



yes

we should



# should we use Wasabi or S3?

- put data in right place according to use case
- carefully evaluate read/write patterns
- clearly identify and understand use cases
- match use cases to costing models
- give consideration to data center locations



# competitor or ally

is this the right way to think about cloud services?



# useful links

- <https://wasabi.com>
- <https://aws.amazon.com/s3>
- <https://medium.com/@rahook/wasabi-and-aws-s3-a-comparison-d0f981731fa9>
- <https://github.com/LeapBeyond/wasabi>
- <https://wasabi.com/cloud-storage-pricing/>
- <https://aws.amazon.com/s3/pricing/>
- <https://www.linkedin.com/in/jeflowers/>
- <https://www.linkedin.com/in/david-friend-3660832/>

# Get in touch!

We would be delighted to support you in executing your program. Together we can more fully transform your data analytics.

**Lets talk!**

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