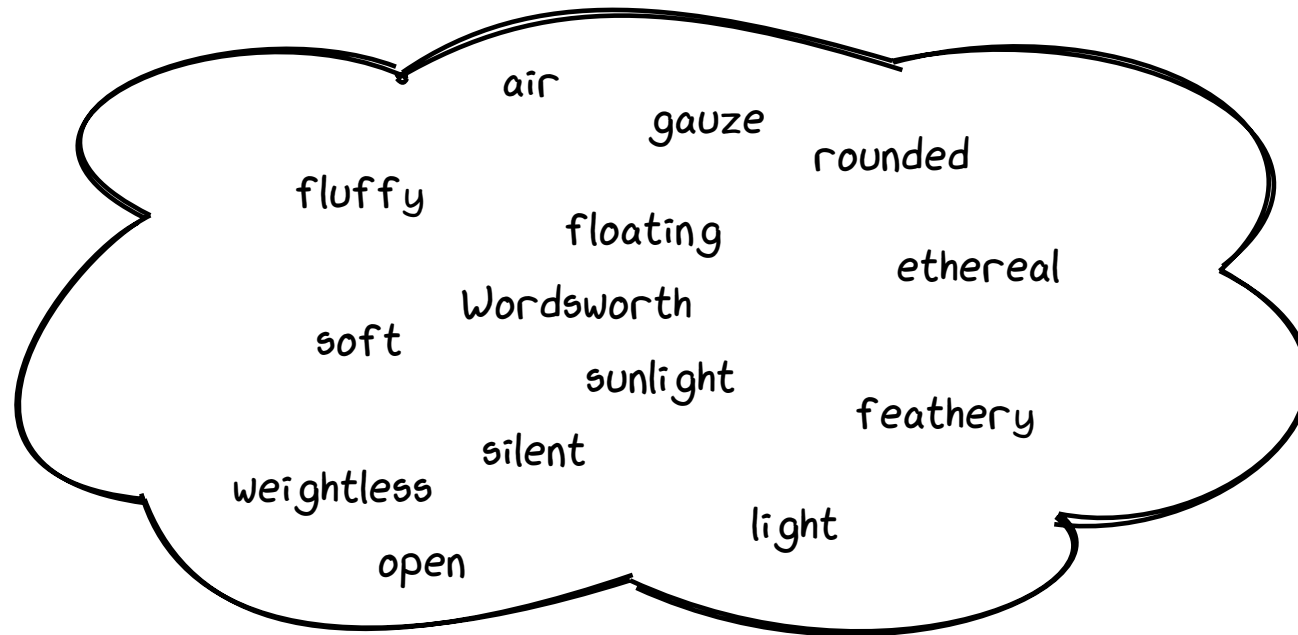


# THE BOTTOMLESS DATACENTRE

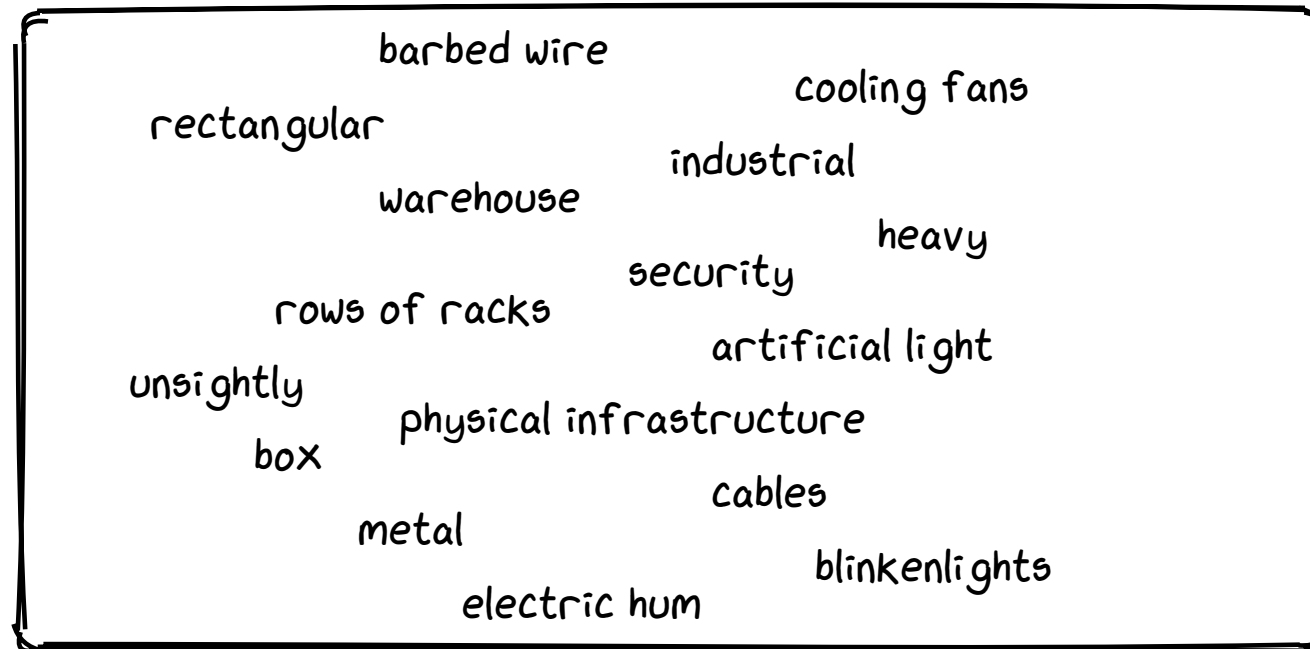


sustainable cloud computing

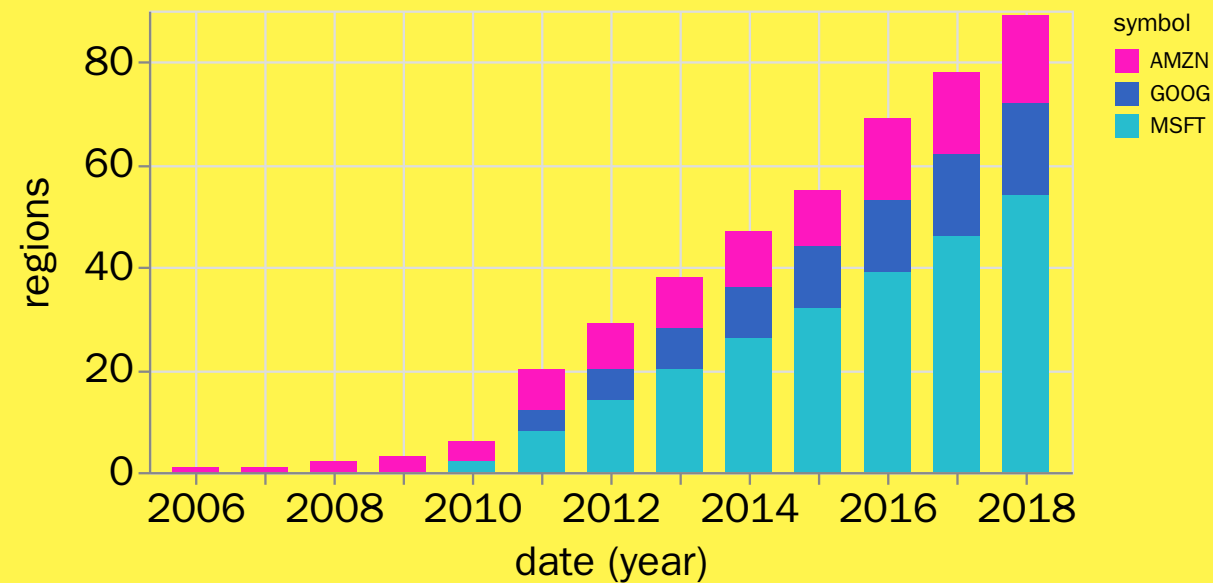
# NEWSPEAK



# TRANSLATION



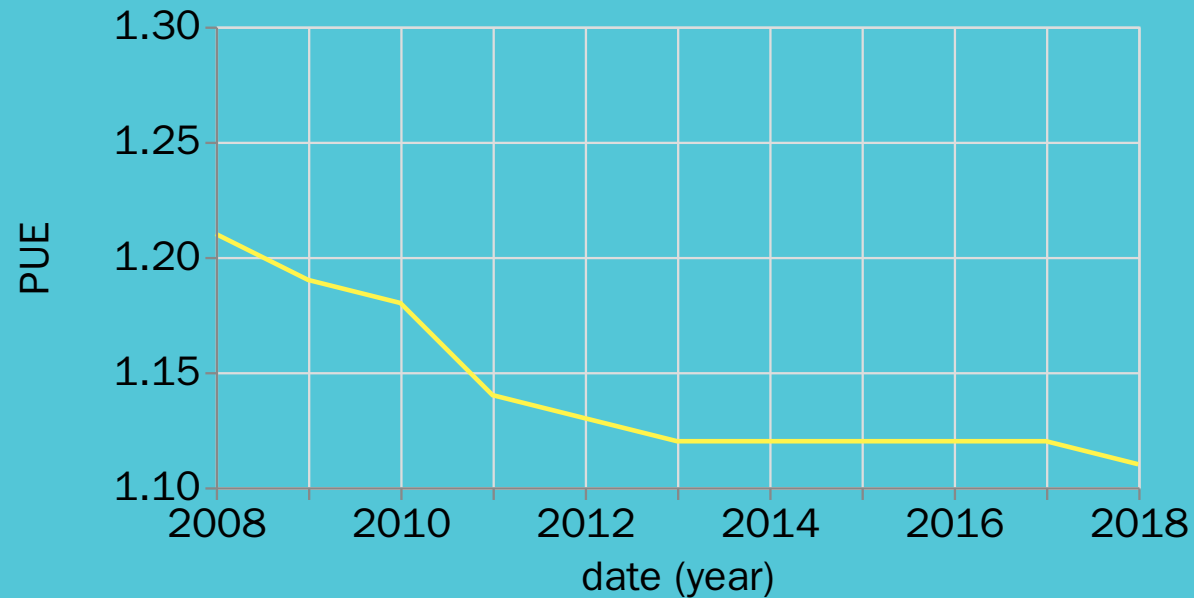
# COMPUTE-1 AND UP



Region data based on the [AWS](#), [GCP](#) and [Azure](#) blogs.  
Some missing data points interpolated.

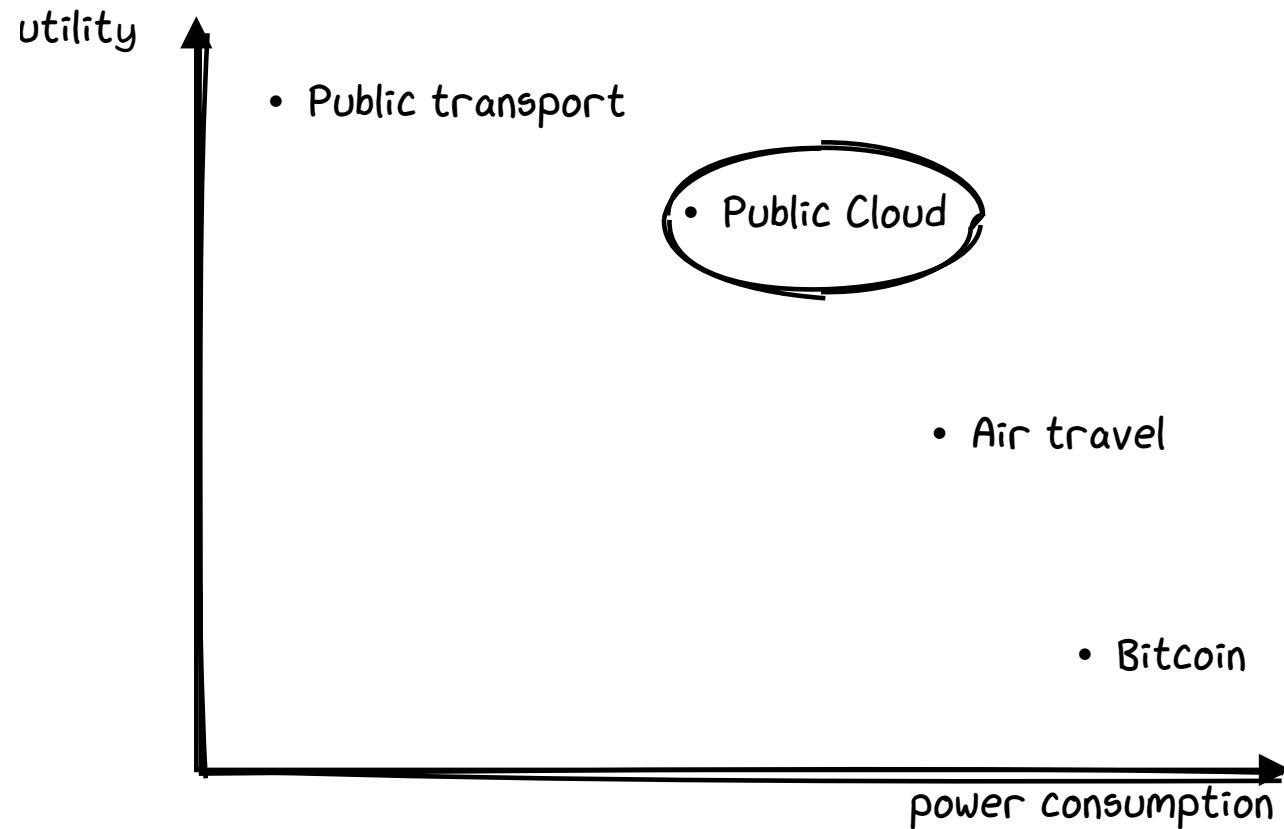
# INCENTIVES

$$\text{PUE} = \frac{\text{Watts in}}{\text{IT watts}}$$



Power usage effectiveness data by [Google Data Centers](#)

# ENERGY MIX



# PHOENIX CI

```
FROM golang:1.11.1 as builder
WORKDIR /go/src/github.com/gerald1248/k8s-network-policy-viewer/
COPY * ./
RUN go mod download && go get && go vet go test -v -cover && \
    go build -o k8s-network-policy-viewer .
```

```
FROM ubuntu:18.10
WORKDIR /app/
EXPOSE 8080
COPY --from=builder ../k8s-network-policy-viewer /usr/bin/
USER 1000
CMD ["k8s-network-policy-viewer", "-s=true"]
```

# THE MISSING THREE PER CENT

We should forget about small efficiencies,  
say about 97% of the time:  
premature optimization is the root of all evil

– Donald Knuth (?)



# THE VIEW FROM LEMANS

Program to where the performance puck is going to be,  
not where it has been

– DHH