

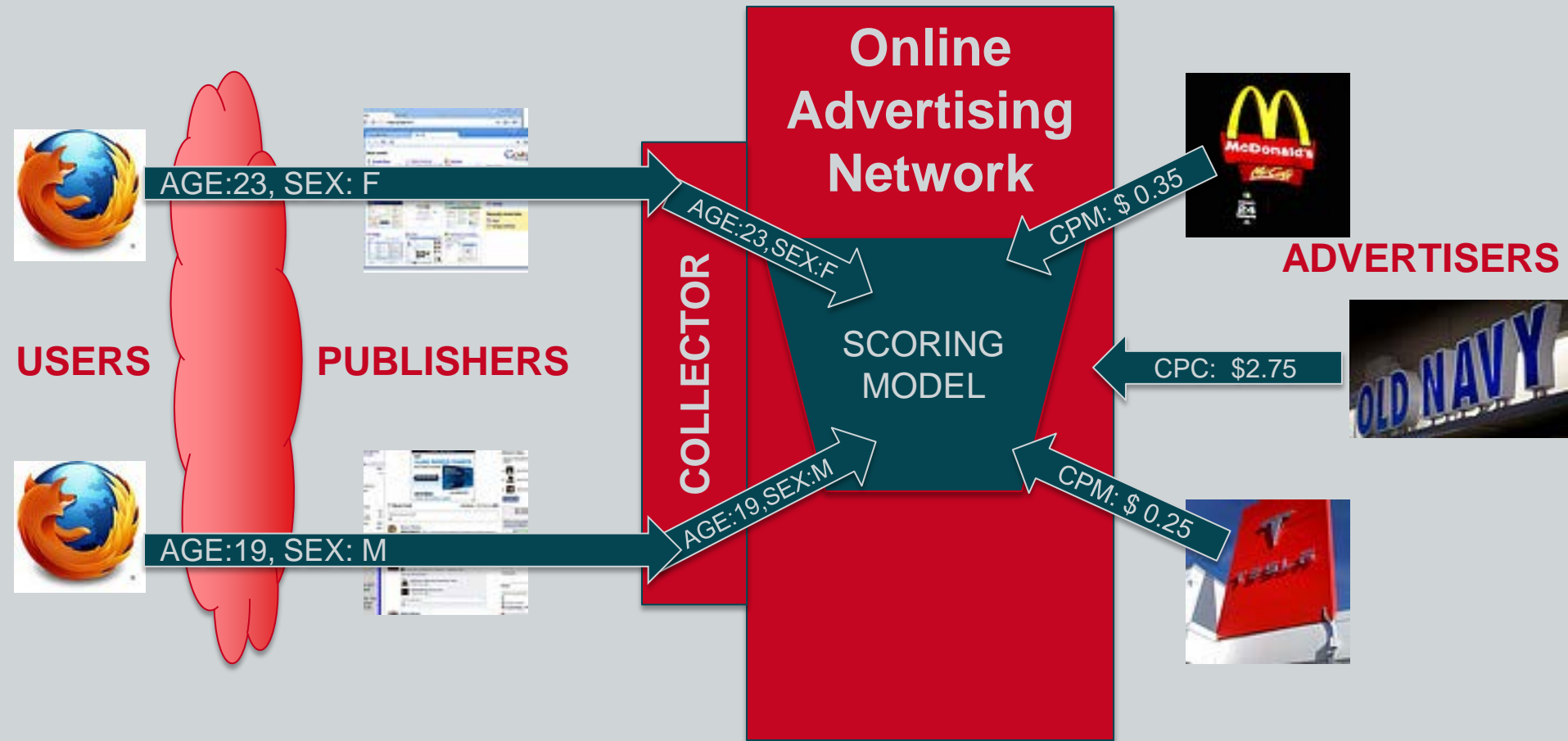
The CANARY in the GOLD mine

Monitor your business ... not just your diagnostic system

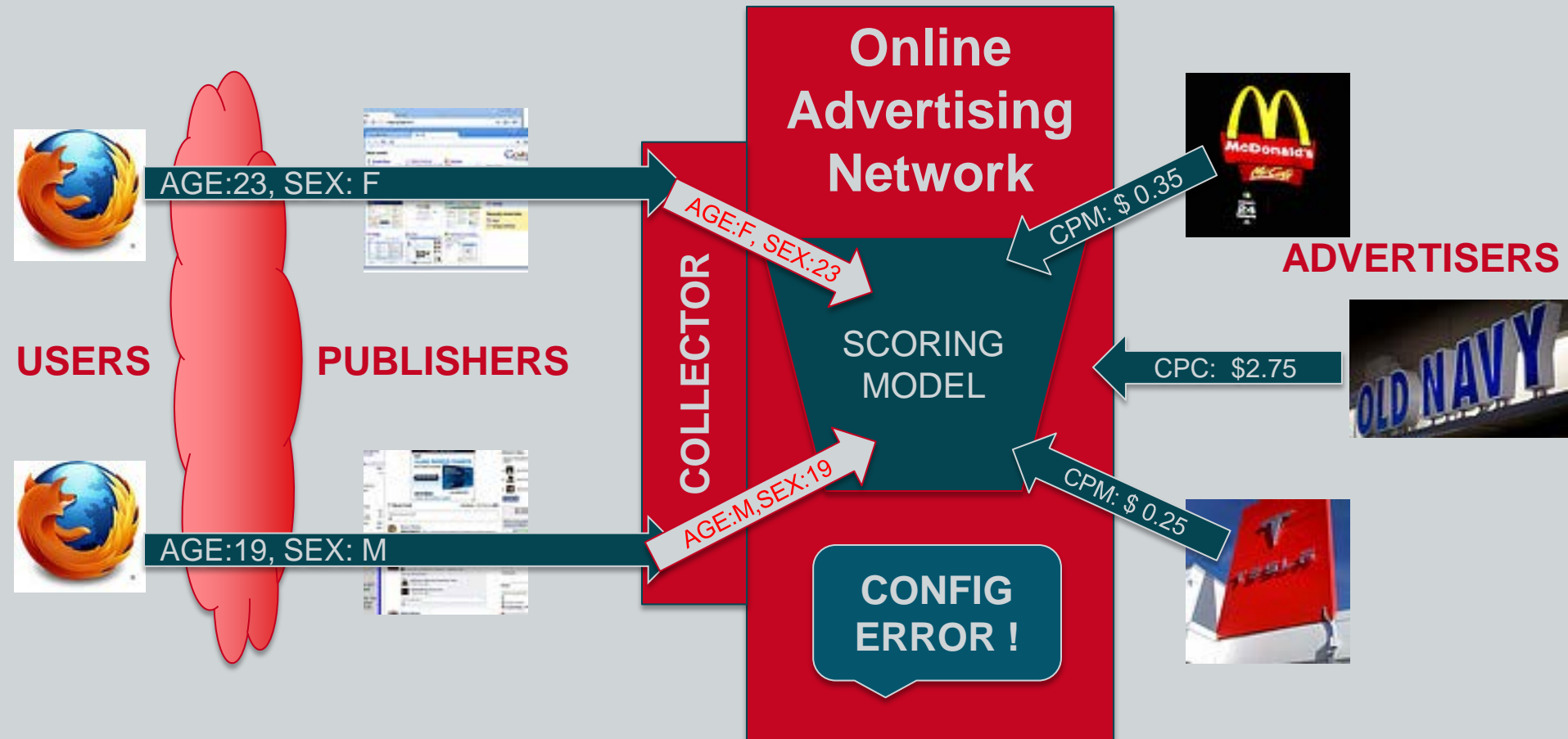
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TRUE STORY ...



BUT ONE DAY ...



SYSTEM WORKED “AS DESIGNED”

NO ERRORS IN LOGS

JUST A “MINOR” MATTER OF ...





BAD HAIR DAY

Sometimes you just have to accept a bad hair day.

LOGS ARE GREAT ... IF



Errors are ***OBVIOUS***

Disk/Network failures etc.

Errors are
ANTICIPATED

Diagnostics are in place

Otherwise ...

NEEDLE IN HAYSTACK



LOOK LISTEN LIVE

Measure business metrics

Compare :

- **History**
- **Peer Group**

Use canaries, spot trouble

MEASURE BIZ METRICS



Revenue in \$

Calls dropped

Mobile video quality

Meeting minutes

Active servers

NOW:

Sliding 15 minute

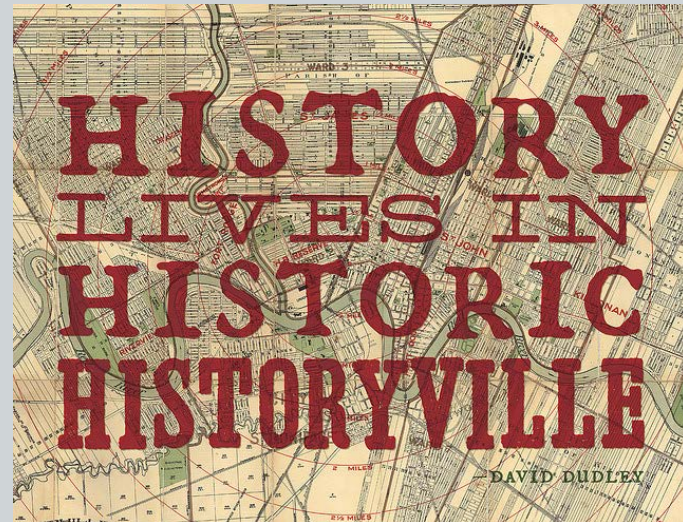
COMPARE WITH HISTORY

Use a Streaming DBMS

- Stream data “facts”
- Join relevant “dimensions”
- Compute metrics “now”
- Store “now”
- Lookup historical metrics

Et Voilà !

time



COMPARE WITH PEER GROUP

Similar idea as history

Compute metrics by group

- By server
- By dimension member

Compare with peer group

NOW

PREDICTIVE MODELS



Learn from history

Build adaptive models

Predict bad outcomes

Act Early

Save Money

Don't Worry

Be Happy !!

RECAP

LOGS & DIAGNOSTICS HAVE VALUE

- BUT ARE LIMITED
- BOTTOMS-UP APPROACH
- NEEDLE IN HAYSTACK

REAL VALUE IN BUSINESS FOCUS

- TOPS-DOWN APPROACH
- STREAMING SYSTEMS TO RESCUE
- PREDICTIVE ANALYTICS

CREDITS

All photos in this presentation are from Flickr

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