



alchero
TECHNOLOGIES

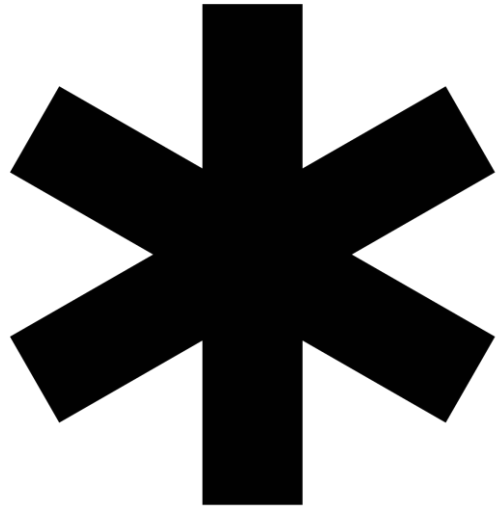
THE FUTURE OF DATA-DRIVEN INFRASTRUCTURE

ANNA JORDAN

CO-FOUNDER, BD & OPERATIONS



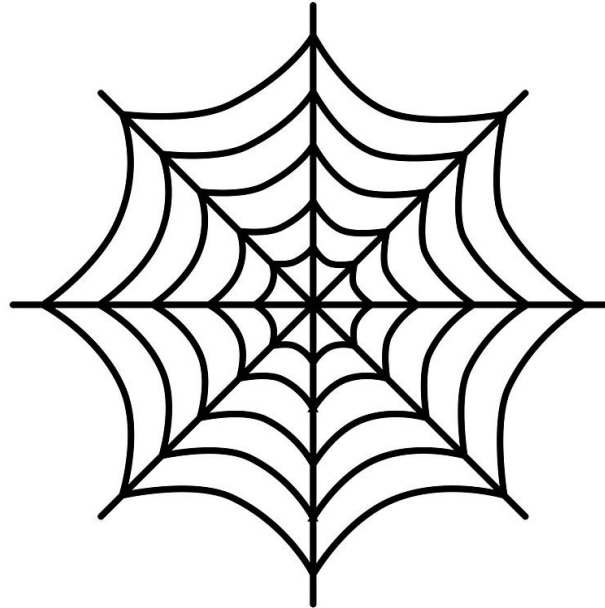
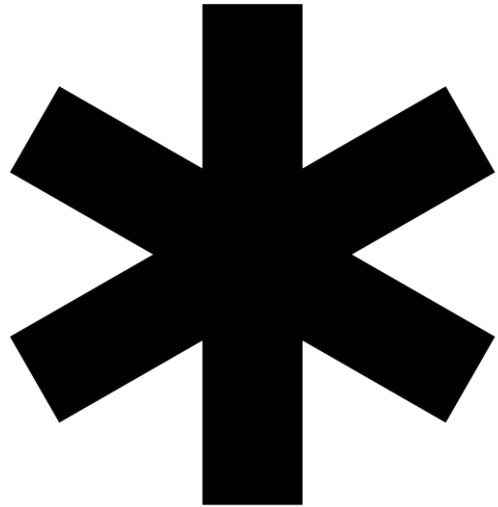
FROM ASTERISK TO SPIDER'S WEB



**The
Economist**

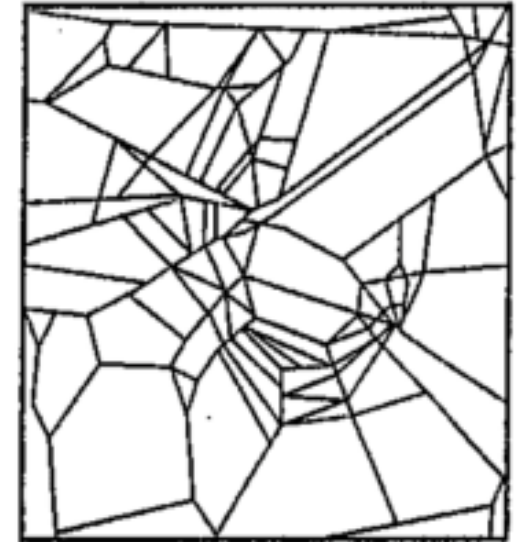
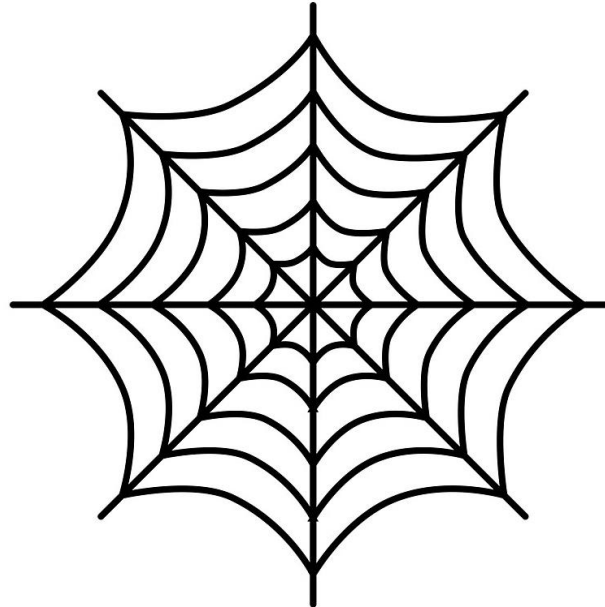
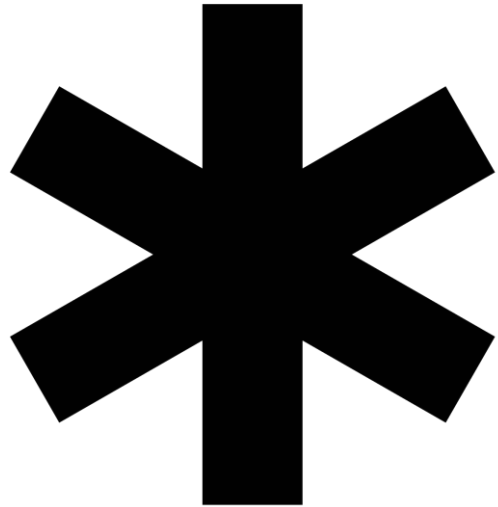
<https://www.economist.com/leaders/2022/05/19/travel-patterns-have-changed-for-good-transport-systems-should-too>

FROM ASTERISK TO SPIDER'S WEB



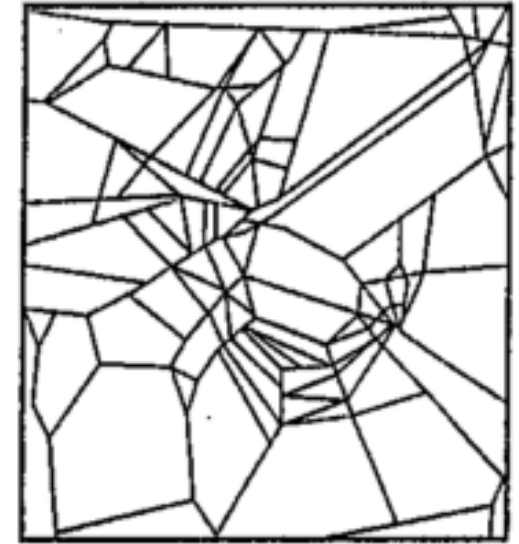
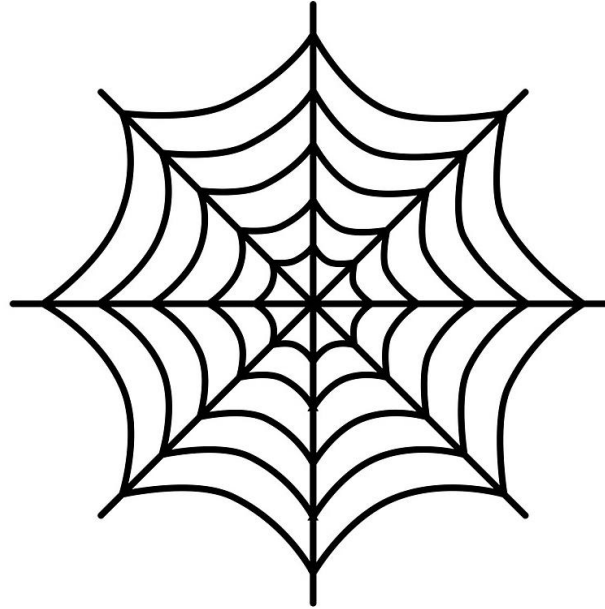
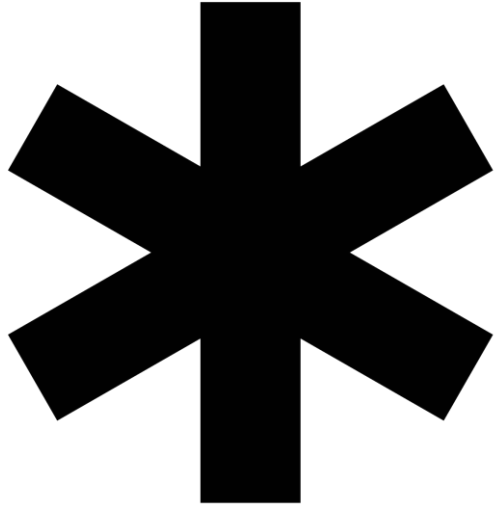
“ Travel is now more like a spiderweb. People take fewer, often shorter journeys along thinner routes; they move to the side, as well as in and out. ”

FROM ASTERISK TO SPIDER'S WEB



Caffeine

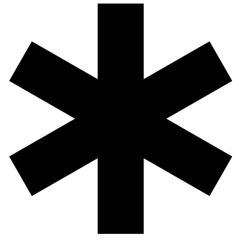
FROM ASTERISK TO SPIDER'S WEB



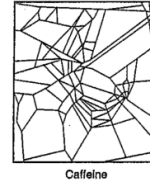
Caffeine

DYNAMIC APPROACH TO A DYNAMIC PROBLEM

FROM ASTERISK TO SPIDER'S WEB



**BUILD &
FORGET**



**BUILD &
EVOLVE**

DYNAMIC APPROACH TO A DYNAMIC PROBLEM

SO WHAT IS THE FUTURE OF INFRASTRUCTURE?

The future of infrastructure is DYNAMIC

**Organisations will have a BUILD & EVOLVE
mindset**

EXAMPLE: DYNAMIC MAINTENANCE PLANNING

THE M25 IS VERY BUSY

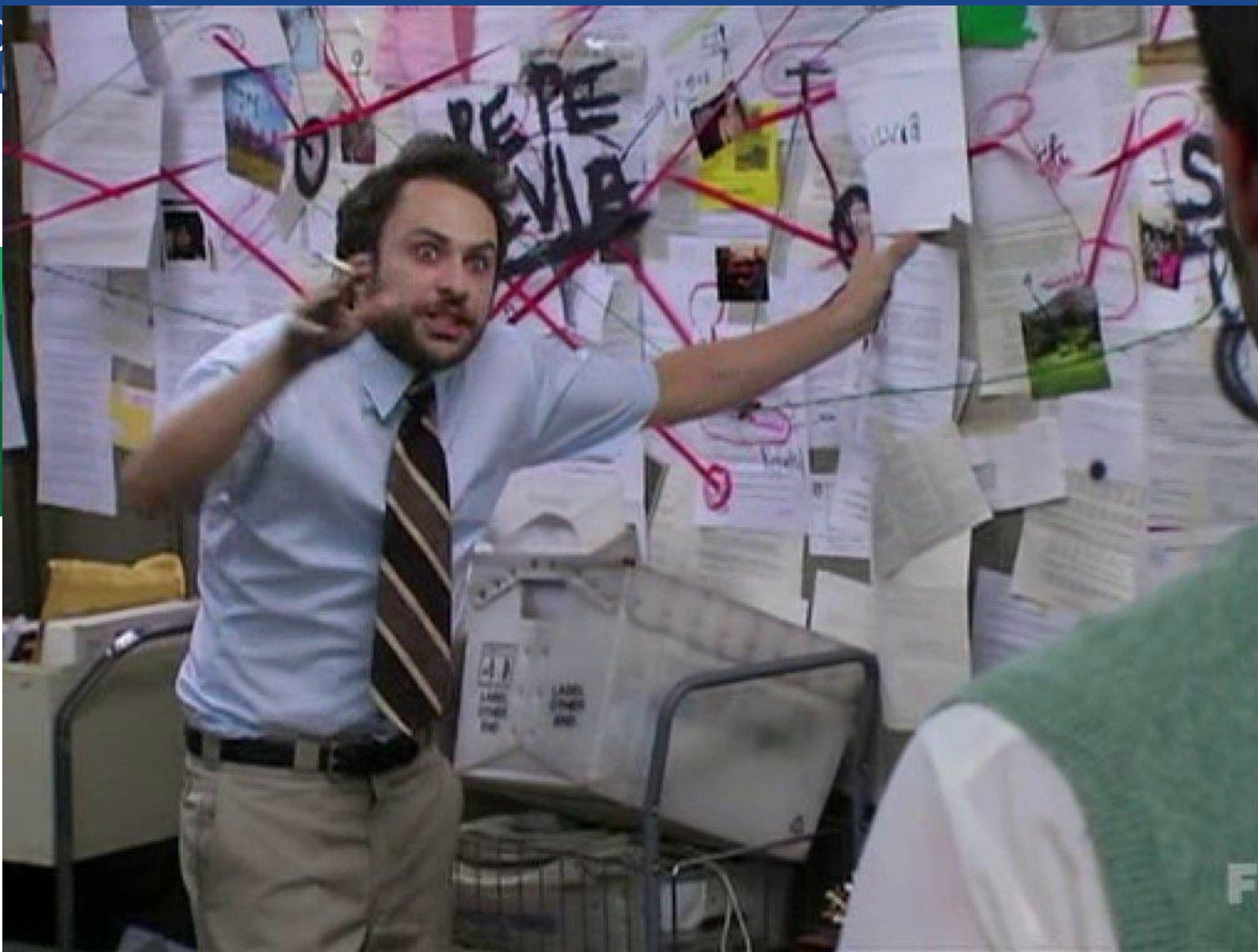


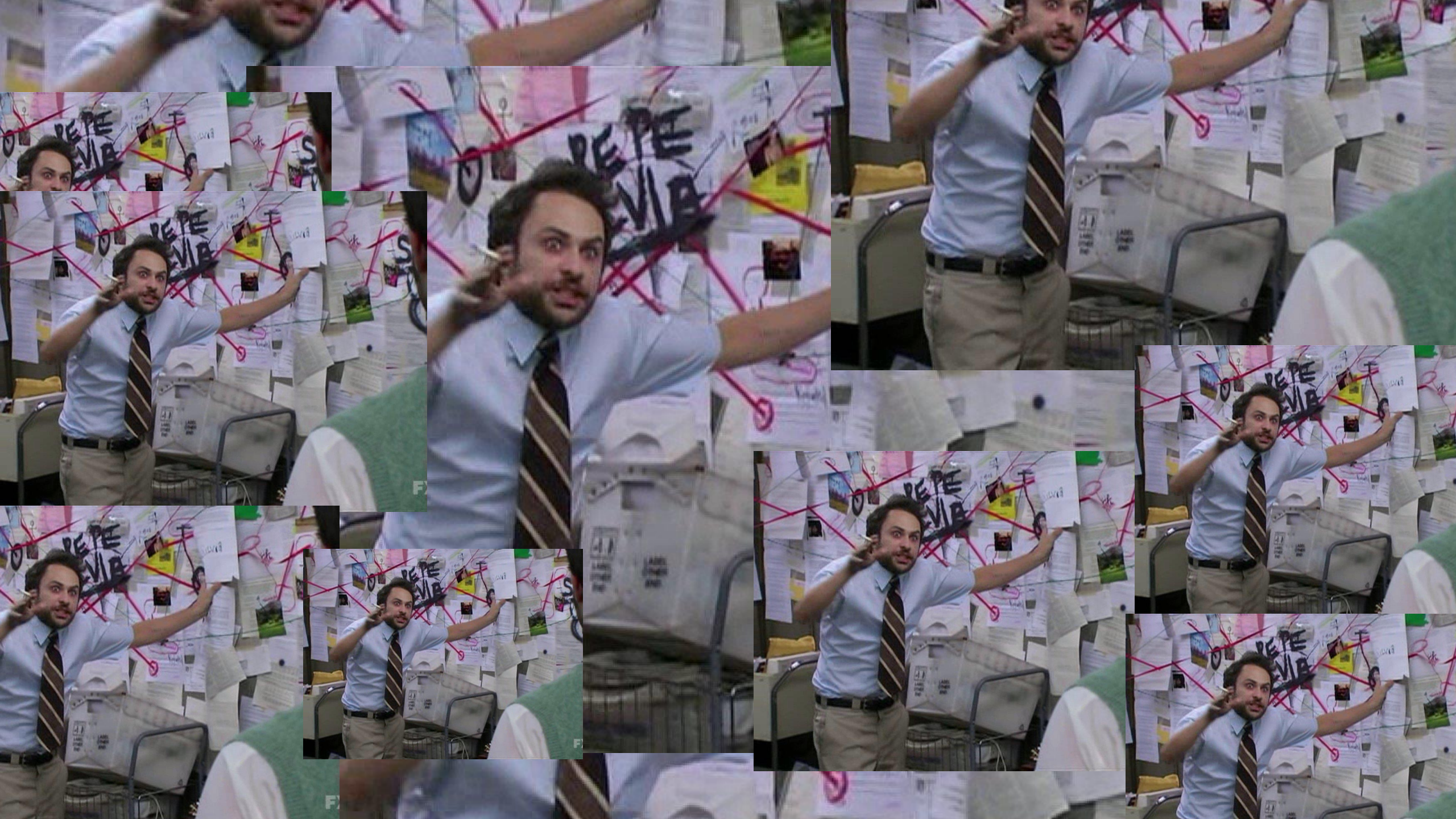
< 1500
per hour

EXAMPLE: DYNAMIC MAINTENANCE PLANNING



EXAMPLE: D





USE CASE: TRAFFIC FLOW PREDICTION



Predict when **flow rate drops below 1500 vehicles** per hour in order to make the case to dynamically plan maintenance 7-90 days ahead



HOSTING
ANALYSIS
FUSION
PREDICTION



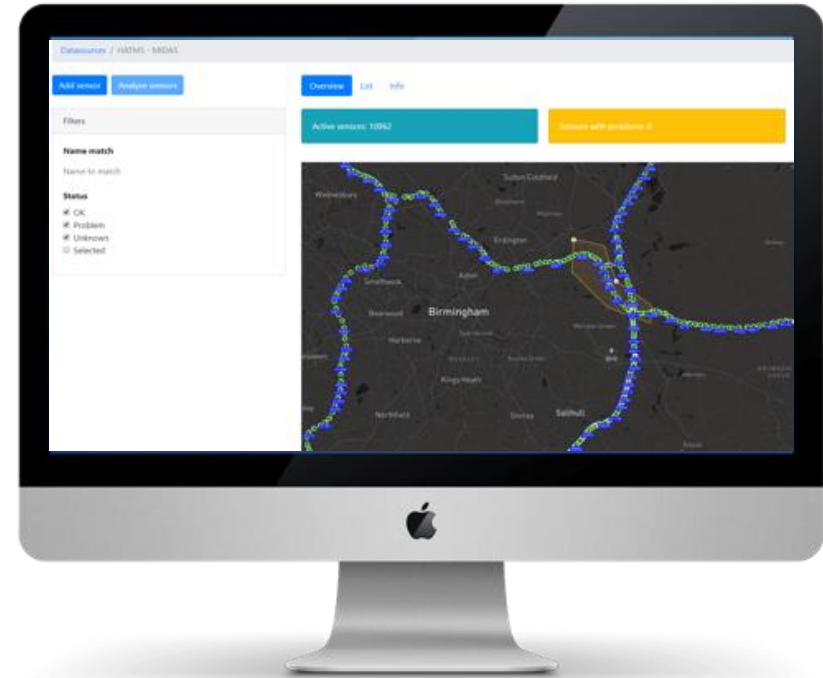
< 1500
per hour

USE CASE: TRAFFIC FLOW PREDICTION

80%

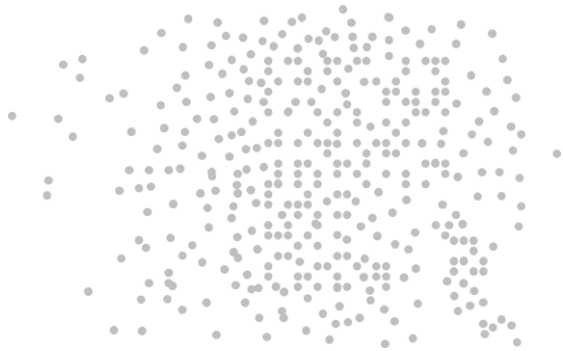
MORE EFFICIENT

NEW WORKFLOWS



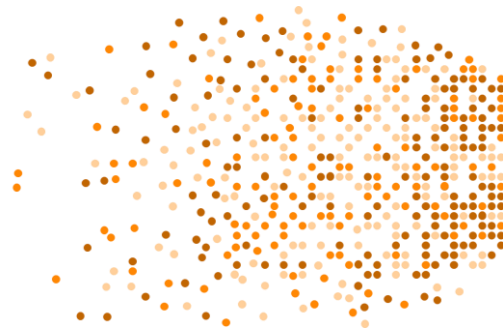
MACHINE LEARNING TO AUGMENT REAL-TIME DATA HOSTING

TODAY
LARGE-SCALE
DATA GENERATION



Fragmentation
Siloes
Data gaps
Latency
Incompatibility

ALCHERA STAGE 1
REAL-TIME DATA
HOSTING & ACCESS



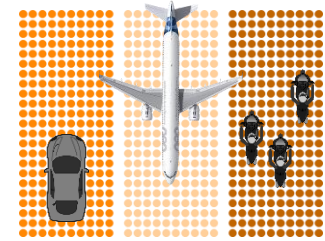
TURNKEY MOBILITY
DATA PLATFORM
("ALPHA")

ALCHERA STAGE 2
MACHINE ANALYTICS
& ENRICHMENT



DATA FUSION
CAUSALITY MODELS
SYSTEM PREDICTIONS

ALCHERA STAGE 3
DATA-DRIVEN
INFRASTRUCTURE

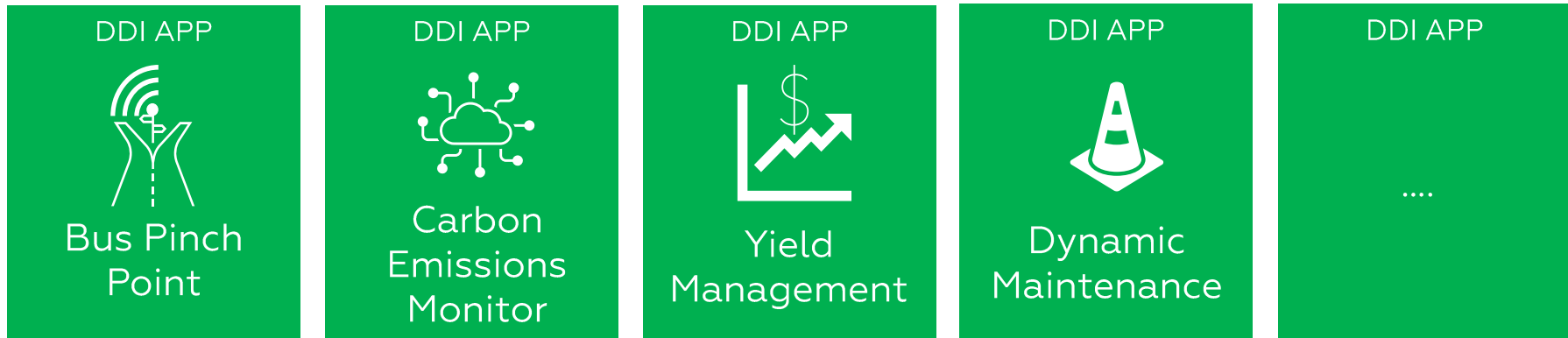


OPERATIONAL
IMPROVEMENTS

PRICING &
SCHEDULING

DATA EXCHANGE

ALPHA AI PLATFORM & APPLICATIONS



ALPHA
AI PLATFORM

MACHINE LEARNING ANALYTICS & OPS

(scheduling, monitoring reliability, orchestration & observability)

DATA ACCESS & QUALITY

A Software-as-a-Service product to deliver multiple data-driven applications powered by a single backbone

SO WHAT IS THE FUTURE OF INFRASTRUCTURE?

The future of infrastructure is **DYNAMIC**

Organisations will have a **BUILD & EVOLVE** mindset

Decisions powering the best outcomes will be **DATA-DRIVEN**



alchera
TECHNOLOGIES

MAKING INFRASTRUCTURE INTELLIGENT

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