



Bridging the Gap

Transforming Data into Impactful Stories

Dr. Chris Hillier



DATA STORYTELLING

Communicating information



$$\frac{\partial z^\alpha}{\partial x^i}$$

$$\sum p \exp \{ - \sum p' / c_{p\sigma} \}$$

$$\beta_{ij} = \sum_{\mu, \nu} C_{\mu, \nu}^* M_{(\mu, \nu) ij}$$

$$M_{(\mu, \nu) ij} = \sum_r \frac{\partial \psi_r}{\partial x^i} \frac{\partial \psi_r}{\partial x^j}$$

need ψ, π ∞ unt, \perp to inners

want $\sum (p^x)^2 = 1 = \sum (\eta^x)^2$

$$\sum \int \eta^x = 0$$


$$\sum \int \frac{\partial z^\alpha}{\partial x^c} = 0 = \sum \int \eta^x \frac{\partial z^\alpha}{\partial x^c}$$

def Ξ^x by $\frac{1}{\sqrt{a_r}} \cos \lambda \psi^r + \frac{1}{\sqrt{a_r}} \sin \lambda \psi^r$

$\Xi^x = \Xi^x + \frac{1}{\sqrt{a_r}} \cos \lambda \psi^r + \frac{1}{\sqrt{a_r}} \sin \lambda \psi^r$

DATA is complex



The image is a collage of three scenes from the movie 'Good Will Hunting'. The top left scene shows Matt Damon and Minnie Driver dancing in a bar. The top right scene shows Matt Damon and Robin Williams dancing. The bottom center scene shows Matt Damon sitting at a table, looking thoughtful with his hands clasped. The text 'Nash Equilibrium' is overlaid in the center.

Nash Equilibrium

**ARE YOU
NOT**

ENTERTAINED?







IDB

Inter-American
Development Bank

**Program to Improve
Infrastructure and Capability of
Government Data Statistical Offices in the Caribbean**

Component 1. Data Infrastructure and Roadmap for Data Resiliency

Component 2. Data Science Training and Knowledge Generation

Component 3. Data Guidelines and Policies

Component 4. Project Coordination, Communication, and Evaluation



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Angry Health

**How to craft engaging,
data-driven regional narratives and
communicate complex data in an accessible and engaging way.**



Disseminating Data Stories

The Business of Data Storytelling





Creating Data Stories

Data Storytelling Training

Sascha



Angry Health

Trinidad and Tobago extends state of emergency amid escalating violence


Parliament unanimously agrees on three-month extension of security measures after gang warfare kills six last week

Jamaica's poverty rollercoaster: harnessing data to break the cycle

ROY KATAYAMA, JONATHAN LAIN, ASSEL PAJU & ELIANA RUBIANO-MATULEVICH
| JANUARY 13, 2025



Maya Train to Belize? Prime minister pushes for cross-border rail link with Mexico

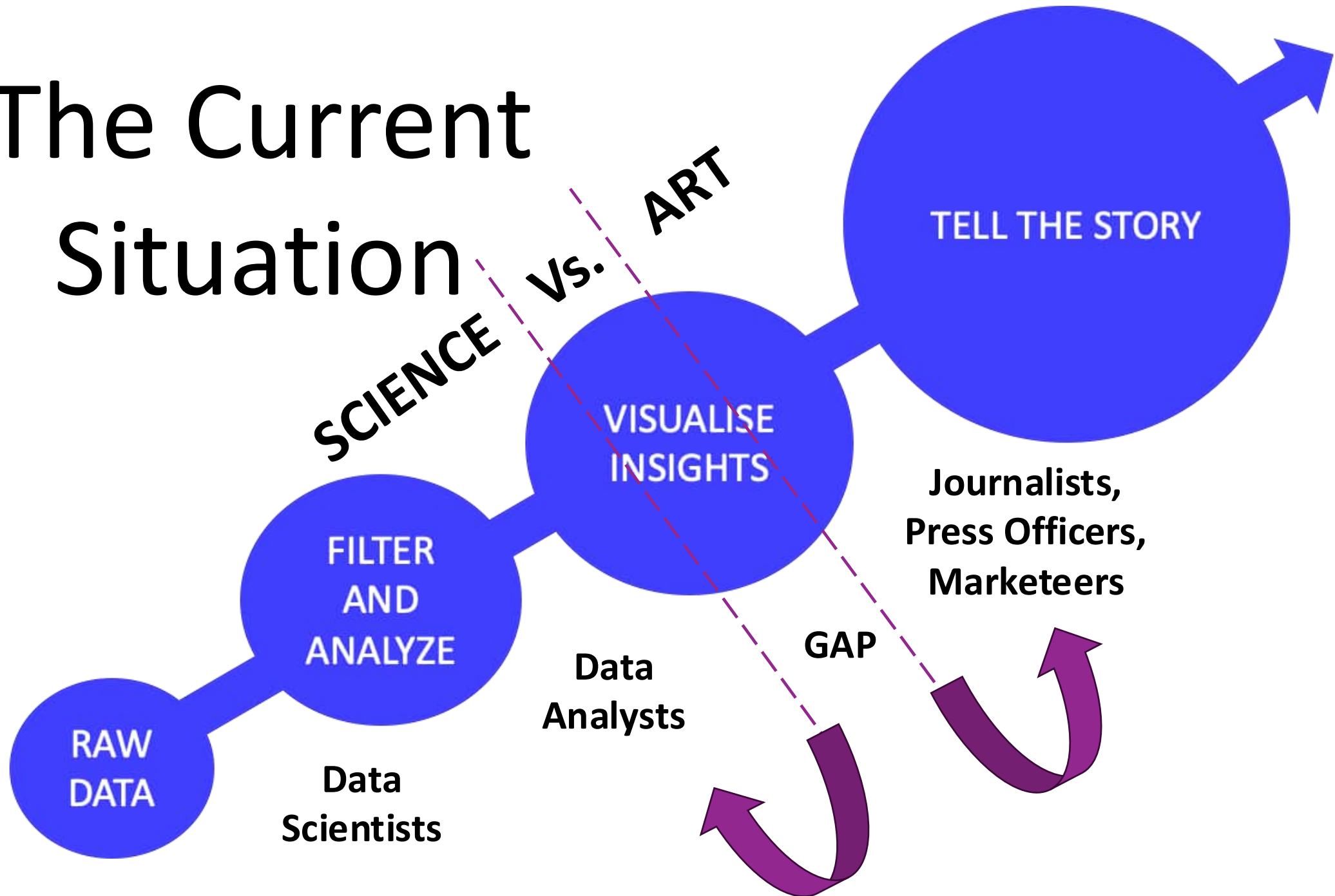
 MND Staff January 13, 2025

Guyana exported 225 crude cargoes in 2024

By Kemol King

January 14, 2025 1:01 PM EST · Updated a day ago

The Current Situation



Your world is changing... fast

A background image showing a hand holding a gas torch, with a bright flame at the bottom. The torch is silver and blue, and the hand is light-skinned. The background is a solid reddish-pink color.

FOUNDATIONAL TECHNOLOGIES

+

ACCELERATORS

=

DISRUPTIVE SCENARIOS



NEW ECONOMIC PARADIGMS

Your world is changing... fast

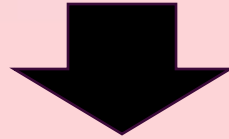
THE PRINTING PRESS

+

STEAM-POWER

=

**EDUCATION – MASS
POLITICAL MOVEMENTS –
REVOLUTION!!**



NEW ECONOMIC PARADIGMS

PUBLISHING INDUSTRY

LOSS OF TRADITIONAL PRINTING CRAFT

LITERACY RATES

JOB LOSSES

CULTURAL PROGRESS

POWER BROKERS OF KNOWLEDGE

Your world is changing... fast

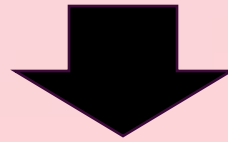
INTERNET

+

E-COMMERCE

=

**DIGITAL MARKETS – SECURE
ONLINE PAYMENTS**



NEW ECONOMIC PARADIGMS

SUPPLY CHAIN LOGISTICS

LOWER CONSUMER COSTS

ENTIRELY NEW INDUSTRIES

**EROSION OF TRUST – LOSS OF PRIVACY –
SOCIAL ISOLATION - INEQUALITY**

ENTIRE INDUSTRIES LOST

Your world is changing... fast

FOUNDATIONAL TECHNOLOGIES



Your world is changing... fast

The background of the slide features a hand holding a gas nozzle, with a bright flame at the bottom. The nozzle is silver and black, and the hand is light-skinned. The flame is yellow and orange, with some black smoke at the base. The overall image has a slightly faded, semi-transparent appearance, allowing the text boxes to stand out.

FOUNDATIONAL TECHNOLOGIES

INTERNET

SOCIAL MEDIA

MOBILE/CELLULAR

CLOUD

BIG DATA ANALYTICS

Your world is changing... fast

FOUNDATIONAL TECHNOLOGIES

INTERNET

Web 3.0 [Decentralized] – Metaverse

SOCIAL MEDIA

Immersive [AR/VR] – AI-Powered

MOBILE/CELLULAR

5G/6G [Ultra-Fast] - Wearables

CLOUD

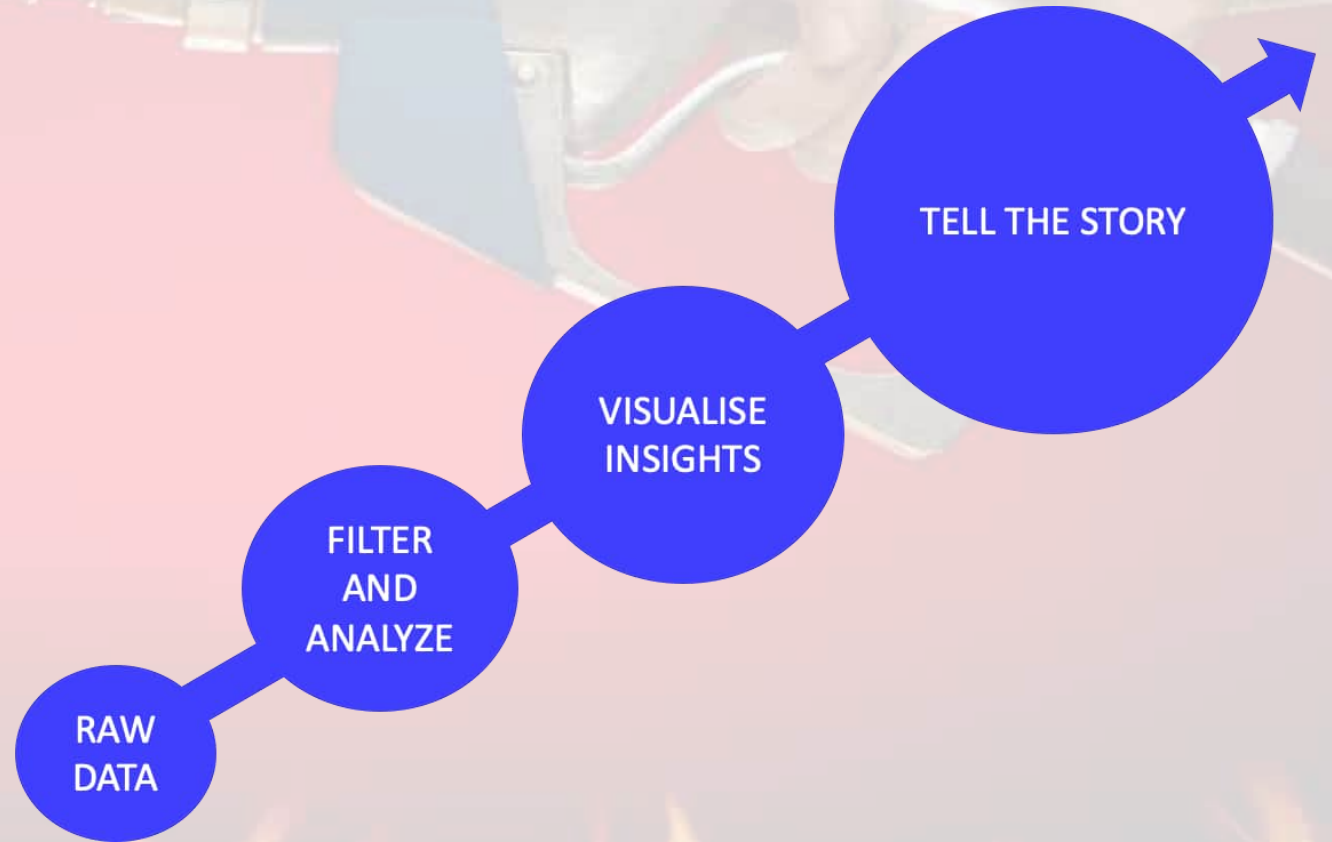
Distributed - Hybrid - Multi - Edge

BIG DATA ANALYTICS

Real-Time - Synthetic Data - GDPR, HIPAA

Your world is changing... fast

ACCELERATOR



Your world is changing... fast

A hand holding a gas nozzle, spraying a stream of fuel onto a large fire. The background is a solid reddish-pink color. The nozzle is silver and blue, and the fire is bright orange and yellow.

ACCELERATOR

COGNITIVE COMPUTING/AI

Your world is changing... fast

A hand holding a gas nozzle, with a flame visible at the bottom of the frame. The nozzle is silver and blue, and the flame is bright yellow and orange.

ACCELERATOR

COGNITIVE COMPUTING/AI

LARGE LANGUAGE MODELS [LLMs]

Your world is changing... fast

INTERNET

SOCIAL MEDIA

MOBILE/CELLULAR

CLOUD

BIG DATA ANALYTICS

+

LARGE LANGUAGE MODELS [LLMs]

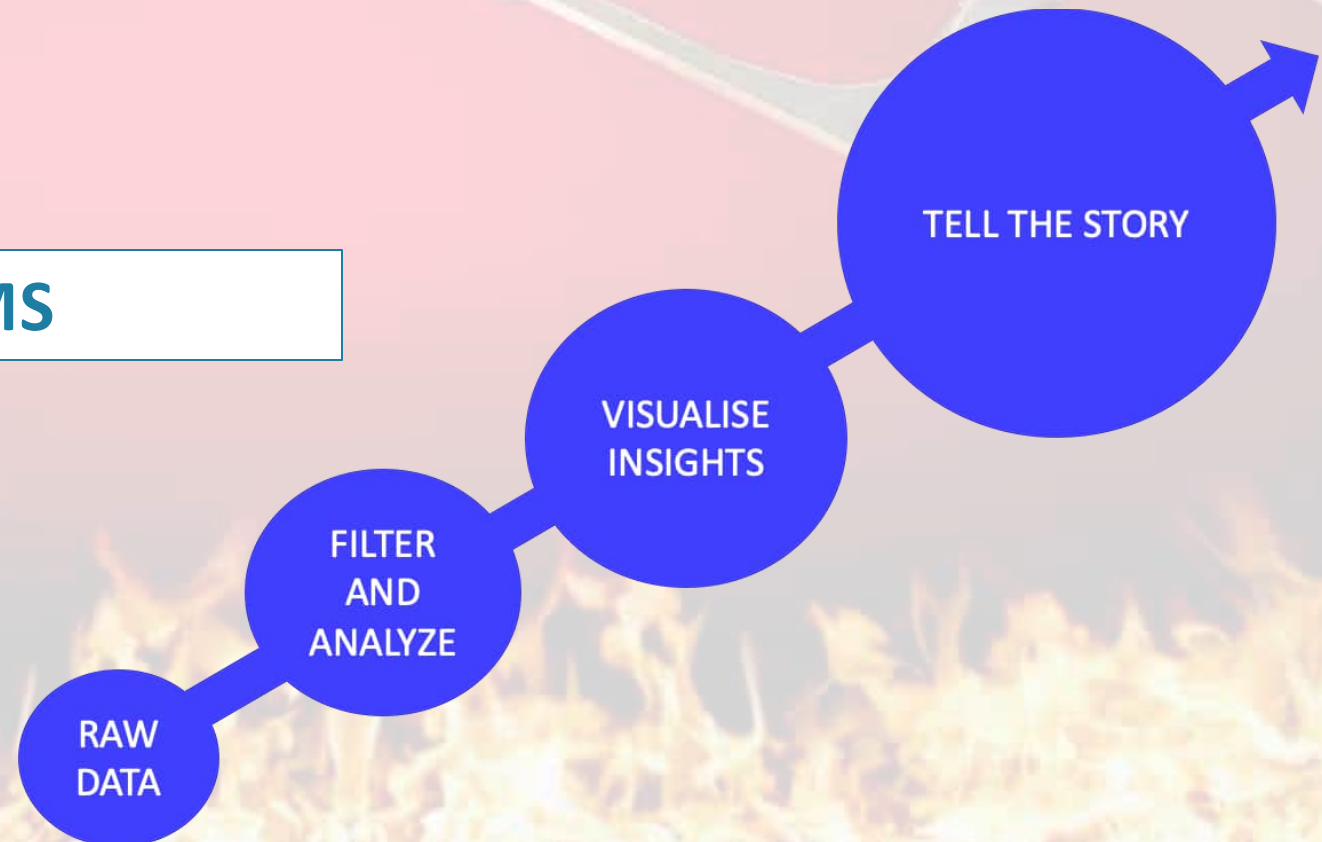
=

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NEW ECONOMIC PARADIGMS



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Automated Data to Story Process

Dedicated Digital Data Storytelling Website

Interactivity with AI components

AI Newsreader with Dynamic Narratives



Angry Health

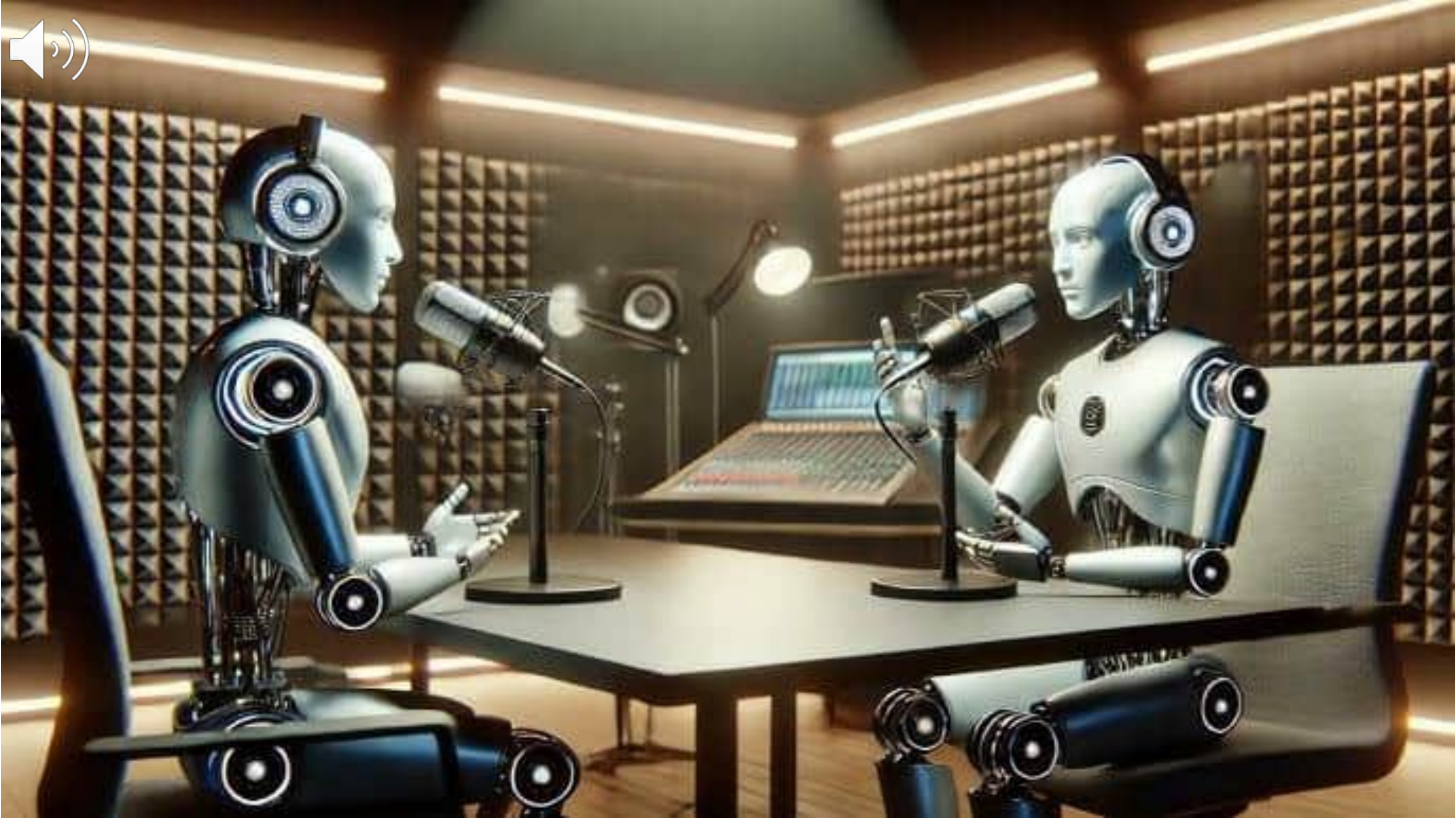
The Future



ORIGINAL SOURCE: TVSEVEN@BTL.NET



AI





The truth is more
important than
the facts.

Frank Lloyd Wright

**A lie travels round the
world while truth is putting
her boots on.**



**“In a time of deceit,
telling the truth is
a revolutionary act.”**

—GEORGE ORWELL

The Age Of Lies





human

machine



AI
TRUTH

We envision a world where Artificial Intelligence can be trusted by all.



Artificial Intelligence
Ethics Case Studies

aitruth.org

Types of Bias in Artificial Intelligence



**UNREPRESENTATIVE
DATA**



**SKEWED
DATA**

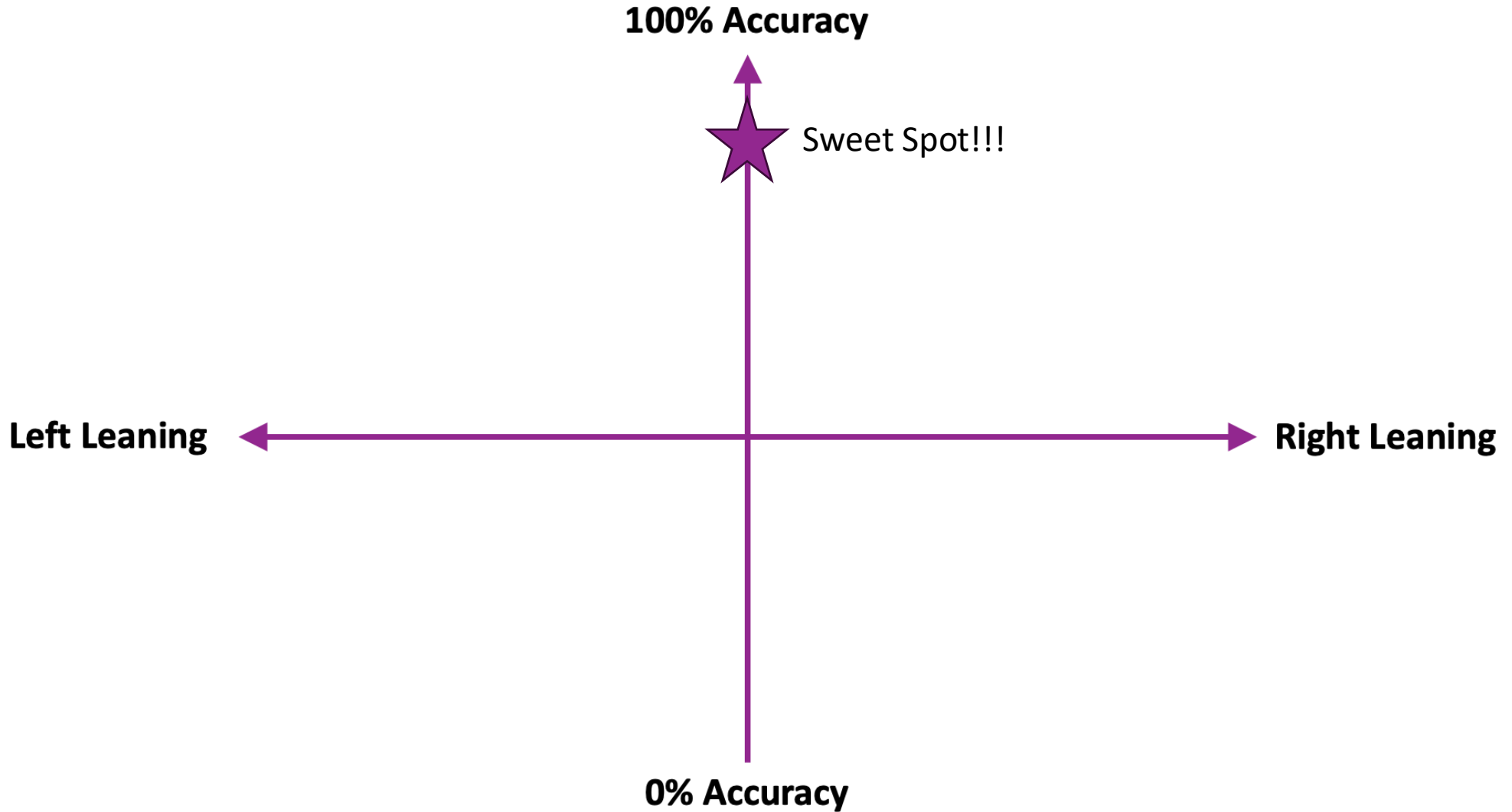


**INCOMPLETE
DATA**

FACTS



FACTS + BIAS

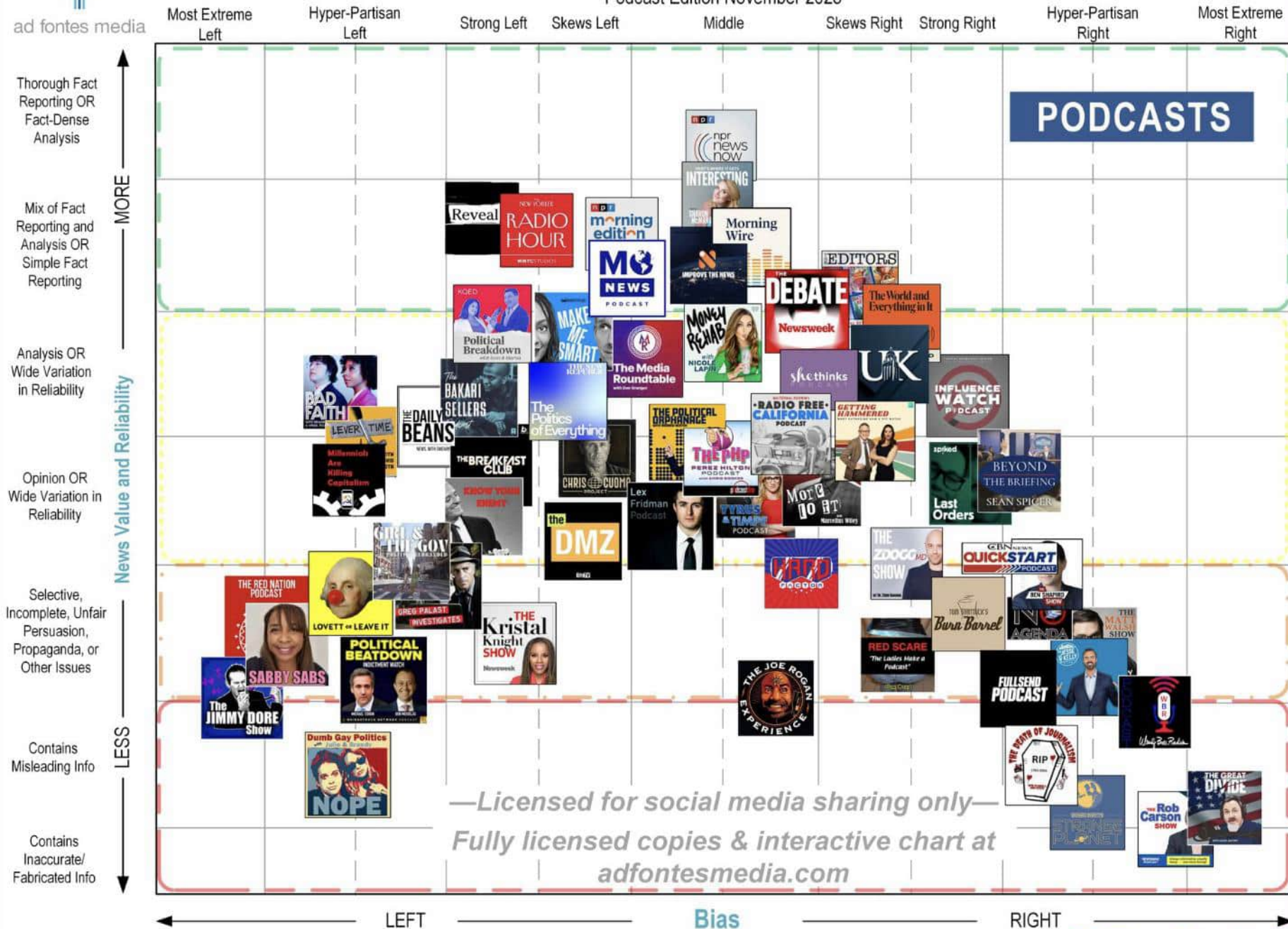




ad fontes media

The Media Bias Chart ®

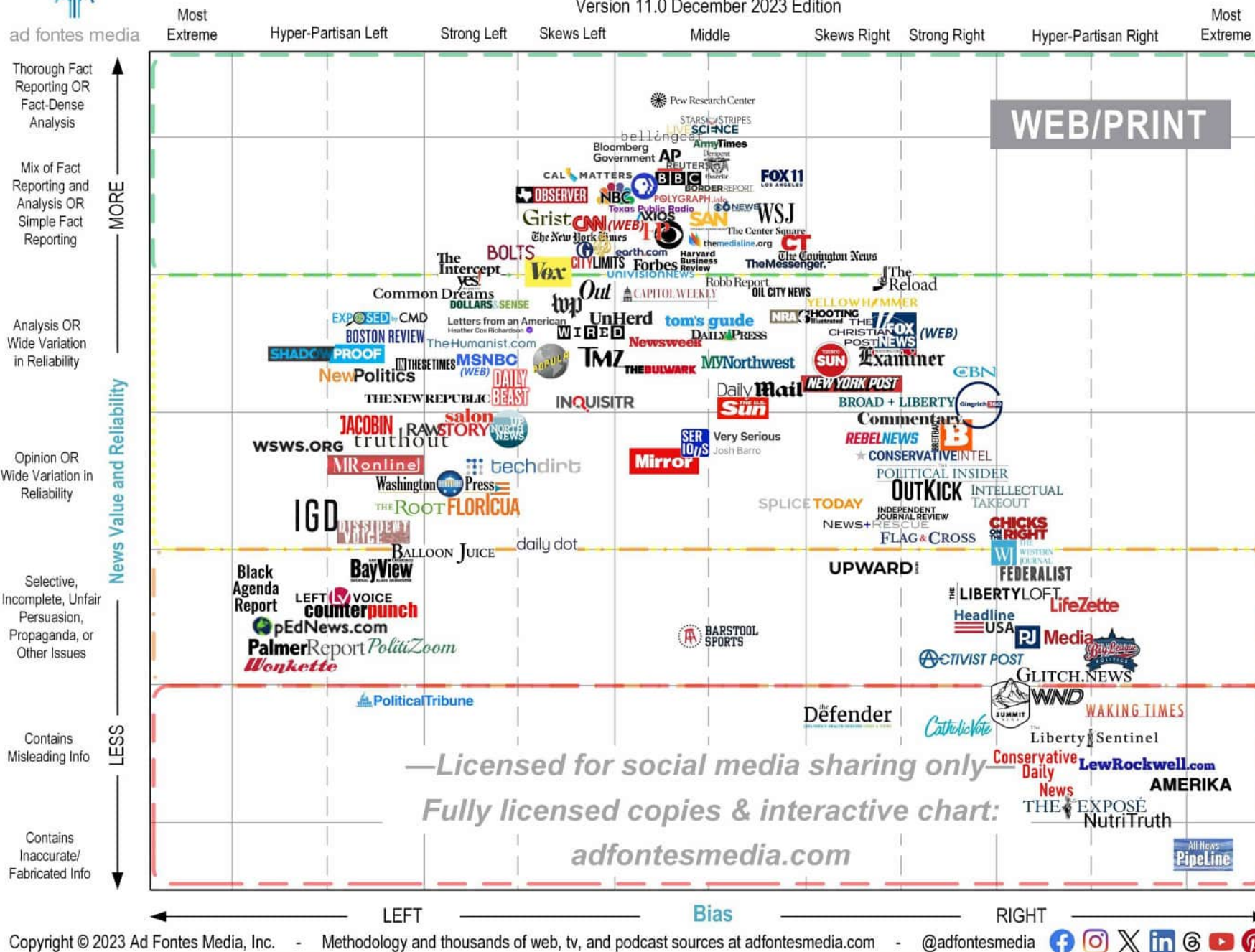
Podcast Edition November 2023





The Media Bias Chart ®

Version 11.0 December 2023 Edition





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Hyper-Partisan
Left

Skews Left

Skews Right

Hyper-Partisan
Right

Most Extreme
Right

MORE

News Value and Reliability

LESS

Contains
Misleading Info

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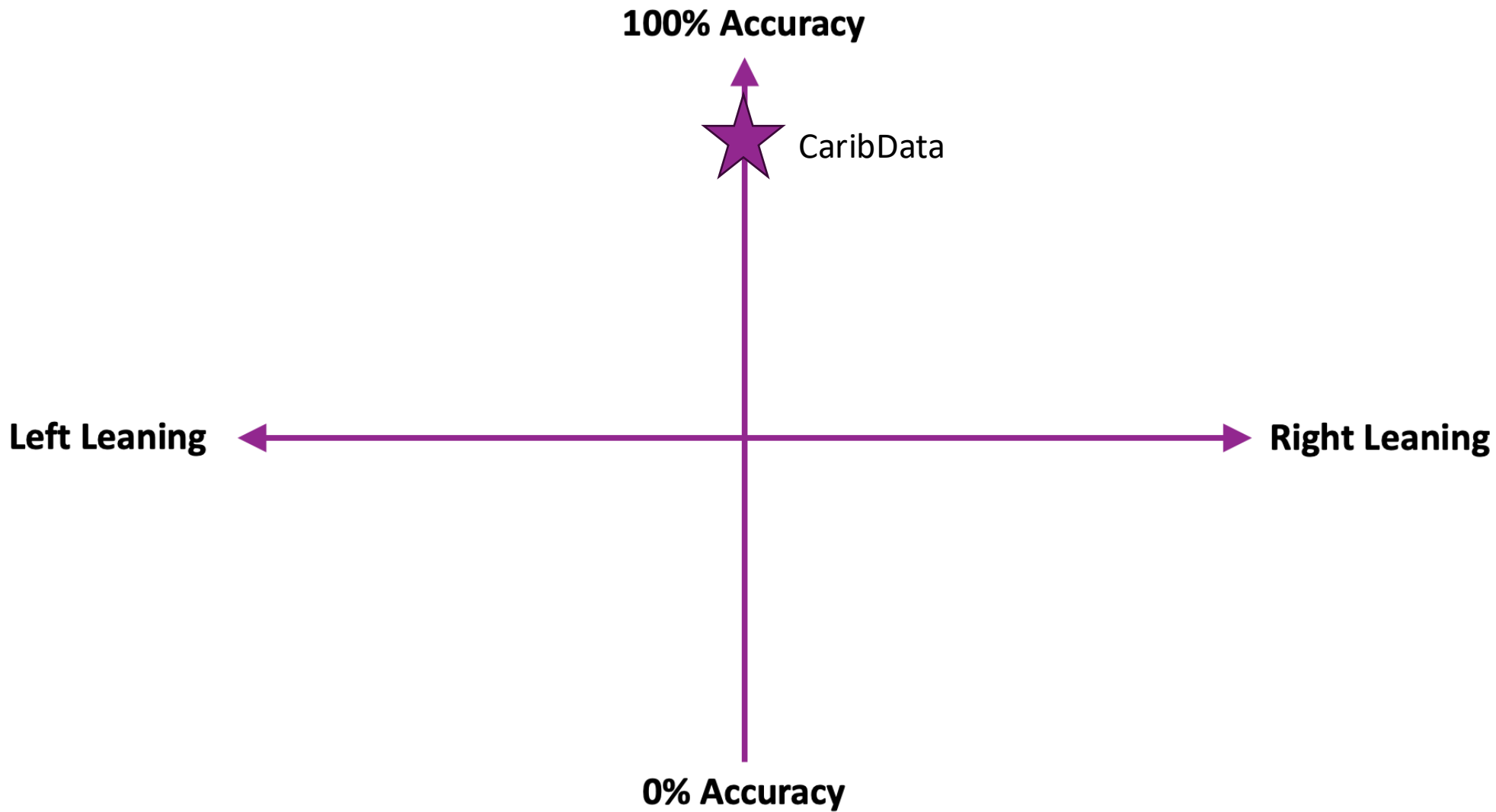








<https://adfontesmedia.com>





Kevin Maurer

DATA JOURNALIST

Pulitzer-Prize Winning Author, Media Specialist
New York Times bestselling co-author

- known for transforming complex data into engaging and understandable narratives
- track record of producing impactful stories for major news outlets and online platforms
- topics from public health to environmental issues
- worked in Ukraine, Afghanistan, Iraq, Haiti, and Africa
- incl. Washington Post, GQ, Men's Journal, The Daily Beast.

