Wrangling Data Governance IN THE WILD WEST OF Artifical Intelligence

- Understand fundamentals of data governance and why it's a critical foundation for artificial intelligence
- Understand how AI impacts the business drivers of data governance
- Understand the importance of master data management to support compliance as well as strategic initiatives like AI

wrangling your data

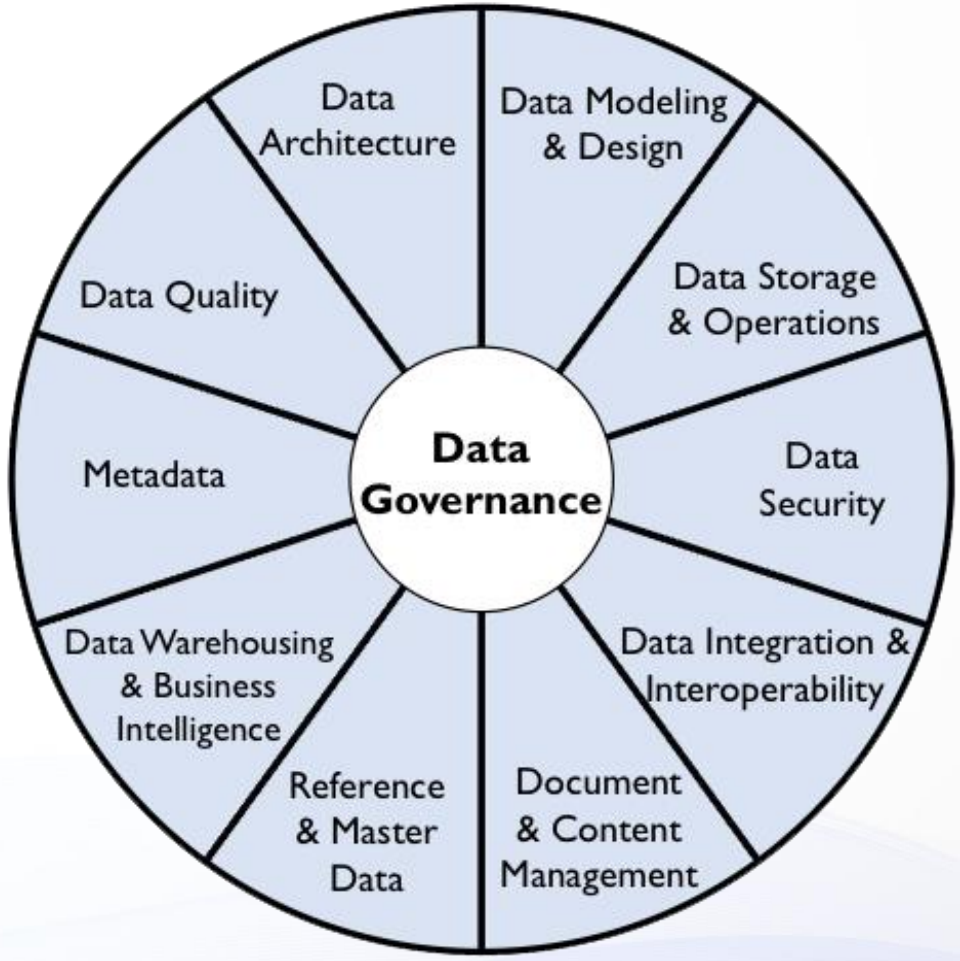
What is Data Governance?

- Oversight of data and processes around data
- Understanding risk of the data
- Controlling the data
- Measuring how the data is used
- Supercharge your defenses against data misuse or breach

Data Governance guides all other data management functions

- Ensures that data is managed properly and according to polices and best practices
- Focuses on how decisions are made about data and how people and processes are expected to behave relative to data

Data governance
as defined by DMBOK is the exercise of authority and control over the management of data assets.



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It's not data governance if it's
all hat and no cattle...
all talk and no action.

What's the Dallas Cowboys
have in common?

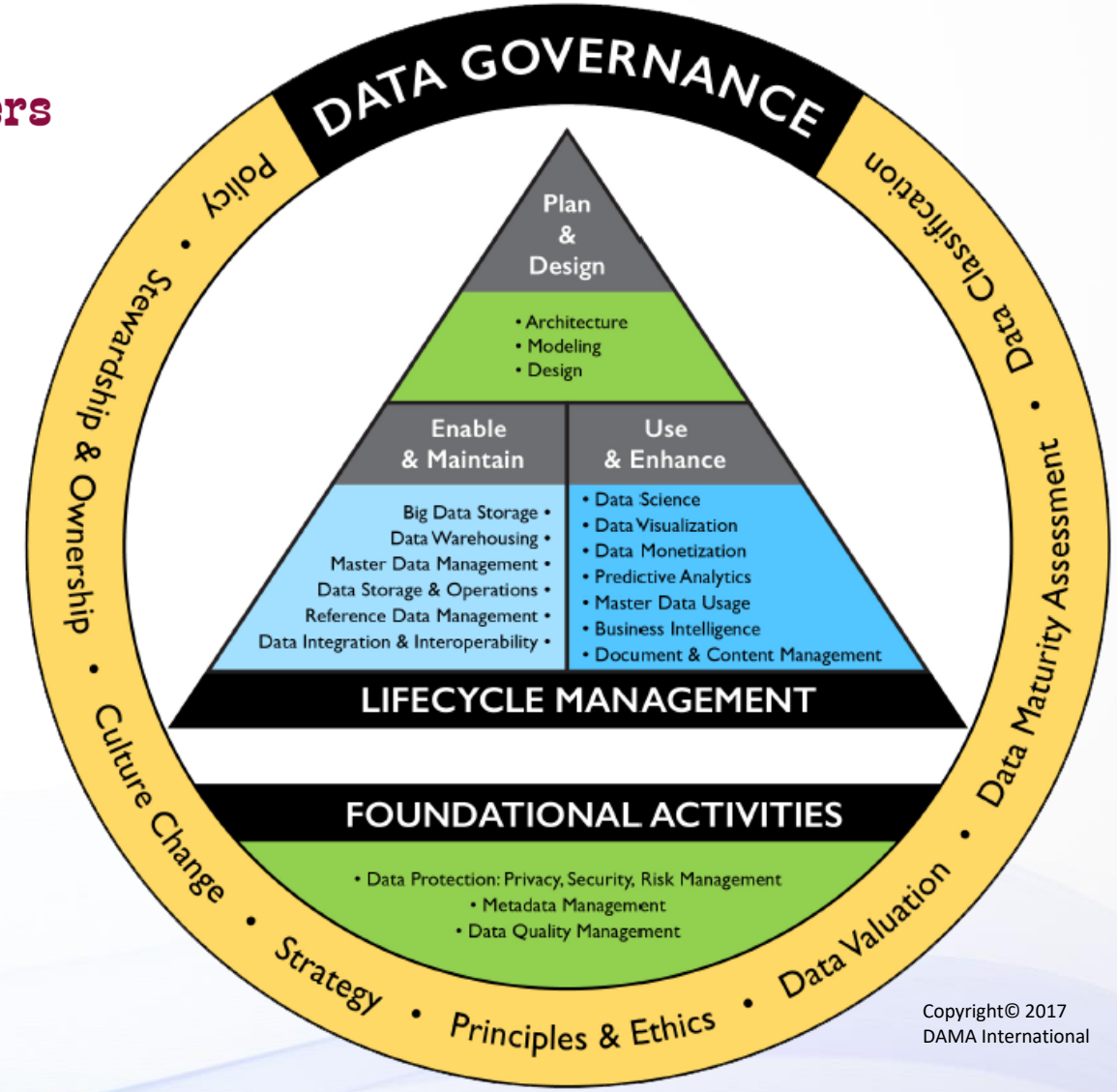
...And now for some genuine cowboy entertainment...

a few bucks every day!

"Always drink upstream from the herd." – Will Rogers

High Quality Data is Key for Better AI

- What data, where did it come from, who has access to it? Is it valid and accurate?
- AI relies on large volumes of data to function effectively
- AI models that are trained on high quality data produce more accurate and reliable outputs
- Poor data quality can lead to incorrect insights, flawed models, and poor decisions



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What Should Data Governance Be Doing About AI Specifically?

Bias Mitigation

Ensure data is representative and unbiased

Regulate the Ethical and Responsible Use of AI

Tracible frameworks and transparent processes

Privacy protection

Ensure Regulatory Compliance

Adherence to laws

Manage risk

Streamline AI Operations

Ensure high quality data is accessible to AI systems, reduce delays and inefficiencies in data processing

Ensures consistent data formats and standards across the organization

Oversee Content and Model Generation

Generative AI does not get it right all the time

Overseeing Content and Model Generation

Sometimes, AI makes about as much sense as a ten-dollar Stetson on a five-cent head.

- Make sure function-specific models are used appropriately
- Governance needs to include what AI is and what it isn't and the adoption on strategy
- Focus on the practical uses of AI that drive productivity
- Oversee practical solutions to complex future problems with AI and the data that it is using and generating

AI without governance is like the lawless wild west before the sheriff came to town.

The cattle rustlers are powerful but ungoverned, while the Sherriff is just as powerful but motivated by justice.

Why? What is the Ultimate Advantage?

Increases the value organizations get from their assets

Strong data governance enhances consumer trust about how their data is being used

Enhances an organization's business reputation, being seen as more trustworthy and reliable

Drives innovation and competitive advantage with better insights

Why can't cowboys ever get the right answer in math class?

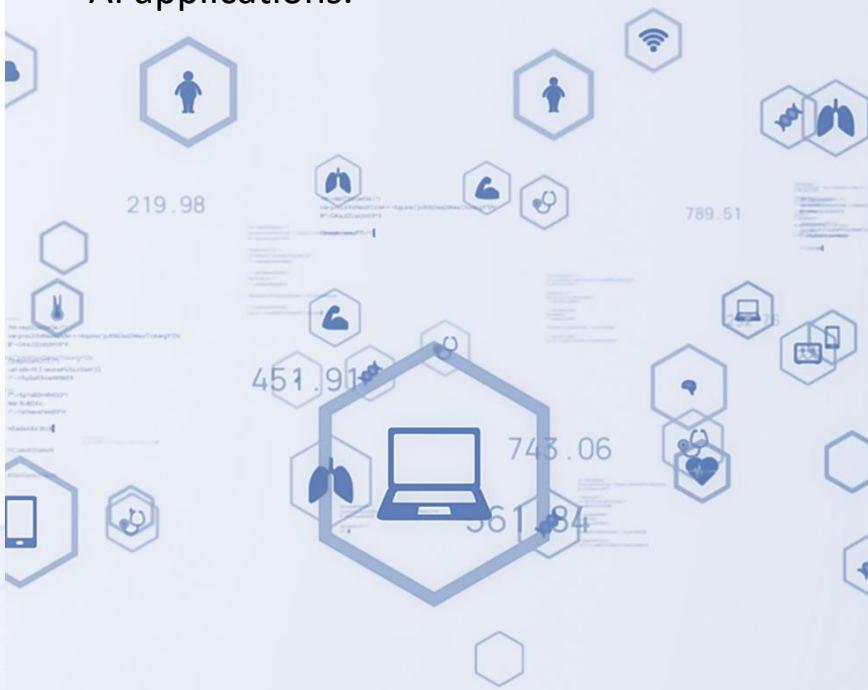
Because they're always rounding things up!

AI can directly impact patient care and treatment decisions, making accuracy and reliability very important to drive evidence-based decisions

Managing a diverse and complex dataset

Healthcare data comes from various sources such as EMRs, images, lab results, and patient-reported information and outcomes.

These must all be integrated and standardized via a data governance program before becoming available to AI applications.



Data Governance of AI in Healthcare

AI can accelerate medical research
and the development of new treatments. Data Governance ensures the integrity and reliability of research data.

Innovative AI applications
come from well-governed data, leading to what could revolutionize patient care and improve health outcomes.

Secures and standardizes data sharing
across providers, researchers, institutions, and patients.

Enables collaboration internationally
where different regulatory standards may exist.

Ensures adherence to HIPAA
and other regulations that mandate privacy and security of healthcare data

Maintains patient trust
with governance of data and AI, ensuring that patient information is protected.

Manages ethical considerations
such as bias and fairness making sure data used for AI in healthcare is representative to avoid disparities in treatment across demographic

Patient consent becomes easier
Including protocols for obtaining and managing patient consent for the use of their data in AI applications.

Roundin' up the right rules and tools

What does your organization need for a Strong Data Governance Program?

What Does a Strong Data Governance Program Include?

Strategy
Defining communicating and driving execution of data strategy and data gov strategy

Policy
Setting and enforcing policies related to data

Standards

Oversight

Compliance

Issue Management

Data Management Projects

Data Asset Valuation

Data Handling Procedures

Data Stewardship Practices

Change of Management

Program must be sustainable, embedded, and measurable.

Ready to wrangle?

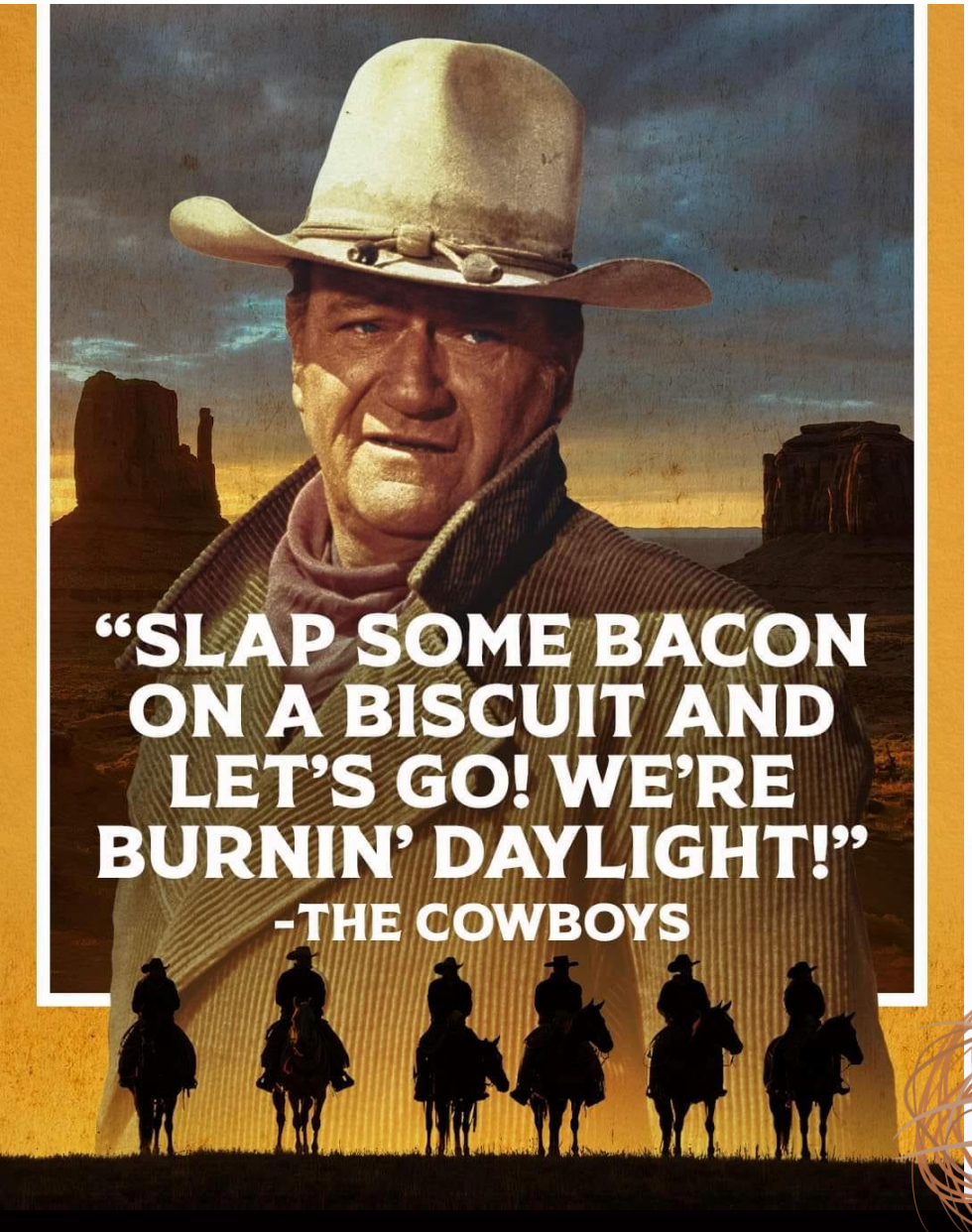
How to set up your Data Governance Program

How to Set up Your Data Governance Program

1. Define data governance for the organization
2. Perform readiness assessment
3. Perform discovery and business alignment
4. Develop organizational touch points
5. Develop data governance strategy
6. Devine the data governance operating framework
7. Develop goals, principles, and policies
8. Underwrite data management projects
9. Engage change of management
10. Engage issue management
11. Assess regulatory compliance requirements
12. Implement data governance
13. Sponsor data standards and procedures
14. Develop a business glossary
15. Coordinate with architecture groups
16. Devine data asset valuation method
17. Embed data governance

Remember, just because AI is here doesn't mean you have to adopt it right away.

Just because trouble comes a'visitin don't mean you have to let it sit down.



Questions and Answers

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Let's get out there and work on your data!