Enabling a Data Driven Identity Program using
Data,
Process and
Risk Management
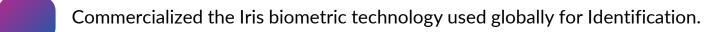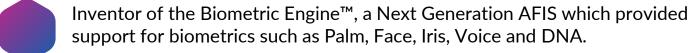
Bill
Willis

Field Chief Technology Officer

IDMWORKS

Bill Willis – Field Chief Technology Officer

Technology Founder and Inventor of IBM's Flagship Identity Management System; Tivoli Identity Manager/ISIM.

Served as IBM's Global Subject Matter Expert for Security and Identity.

Commercialized the Iris biometric technology used globally for Identification.

Inventor of the Biometric Engine™, a Next Generation AFIS which provided support for biometrics such as Palm, Face, Iris, Voice and DNA.

Inventor of foundational patents for Identity and Biometrics.

Recognized Thought Leader in the areas of Security, Compliance, Cryptography, Biometrics, Credentialing, and Identity Management.

Designed and implemented global identity and compliance solutions.

Today's Conversation

- An Identity program is only as good as:
    1. The data and events that drive who gets what and why,
    2. If a person should have access and
    3. The vision of a generational investment

- Empowering the identity data by integrating risk and policies creates a vibrant, risk mitigated Identity program, a protected Identity perimeter and a robust Total Cost of Ownership and Return on Investment.

Understanding Risk

- What Framework do you have?

- Are all of the policies in place?

- Can you acquire all of the Identity data signals needed to generate actions?

- Are the Identity eco-system components capable of providing decision making data?

- Source of truth and Source of Record, how accurate and timely are they?

Intuition Driven Decision Making

Relies on Gut Feeling

Make best guesses

Relies heavily on previous experience

Inherently risky

Corrective

Data Driven Decision Making

Relies on Facts

Choices are tested

Inspired by previous experience

Risk aversing

Directive

Data-Driven Decision-Making

Coherence with a shared vision presented on a strategy map

Understand Context

1

2

Define KPIs

Make a decision more tangible and more specific with KPIs

Use the performance data for leading and lagging indicators

Visualize

3

4

Action Plan

Activities + Rationale + Budget

5

Prioritize Decisions

Create your own prioritization framework

8

Learning Loop

Improve communications, infrastructure, internal mechanics

6

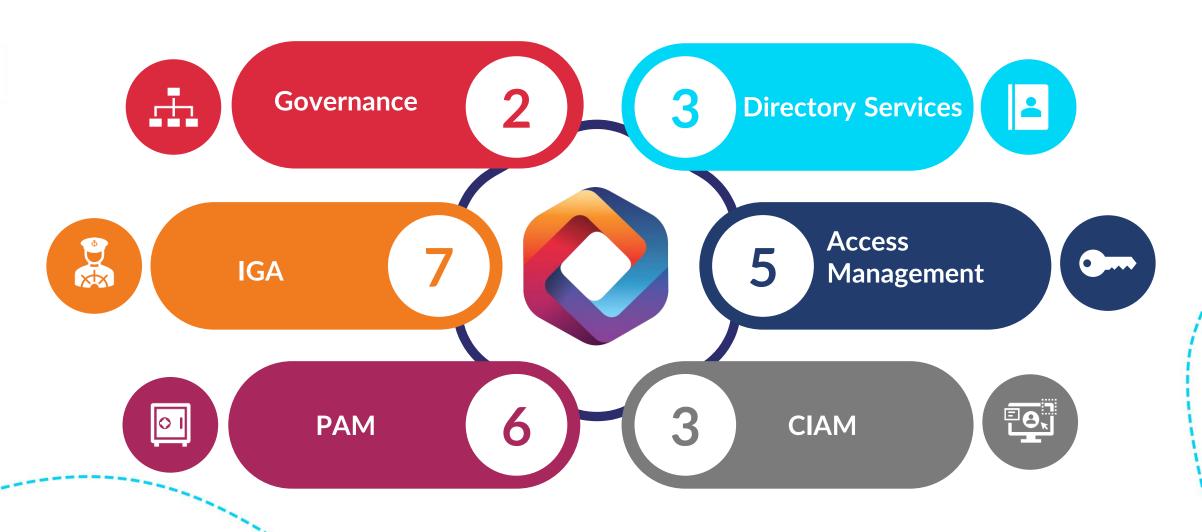## Execute

Use KPIs as a base for discussion and improvement

7

Analyze Results

Analyze deep reasons for failure/success

Your Identity Posture

Governance 2

3 **Directory Services**

IGA 7

5 Access Management

PAM 6

3 CIAM

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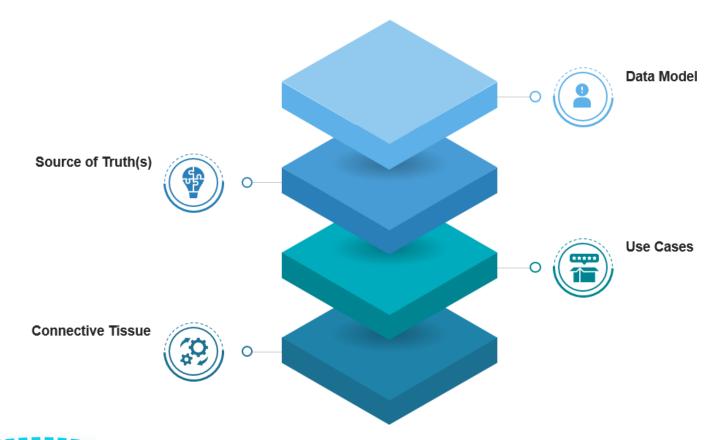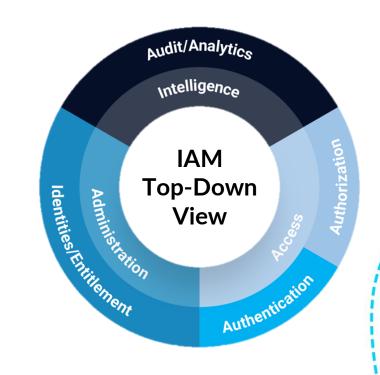#identiverse

Your Identity Posture

INTELLIGENCE

Web Fraud Detection +other monitoring tools

Security Information and Event Management

ERP SOD Controls

Identity and Access Intelligence

ADMINISTRATION

Role Life Cycle Management

User Provisioning

Microsoft Resource Access Management

Credential Management → Password management

→ PKI → Card management

AD/Unix Bridge

AUTHENTICATION

Identity Proofing → Electronic Signature and Transaction Verification

Authentication - a wide variety of different methods

Authentication Infrastructure → Versatile Authentication Servers/Services

Single Sign-On → Enterprise SSO

Limited-Domain SSO

AUTHORIZATION

User-Centric Identity Frameworks

SSL VPN

Federated Identity Management

Web SSO ....→ SaaS SSO

Web Access Management

Privileged Account Activity Management

Entitlement Management

→ Encryption

Content Access Management

Enterprise DRM

Identity-Aware Networks

Content-Aware DLP

Access Controls

The day to day issues that block Data Driven decisions
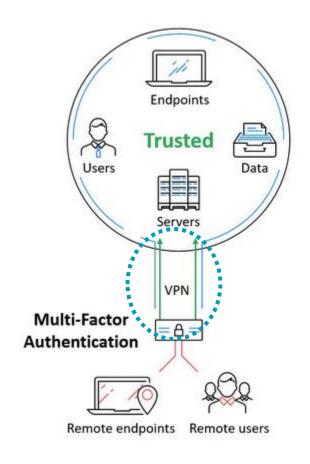

Manual Processes

Internal/Home Grown Applications

Fine Grain Attributes Across the Enterprise

Approvals

Source of Truth for Third Party

Limited PAM

Back to the Basics

Data Model

Source of Truth(s)

Use Cases

Connective Tissue

IAM Top-Down View

Audit/Analytics

Intelligence

Authorization

Access

Authentication

Identities/Entitlement

Administration

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Your VPN is in the Way

Identity
Eco-System

Human Resources

Organization Structure

Contractor Management

Information Technology

MERGER ACQUISITIONS

RECRUITING

SIEM

PMO
PROJECT MANAGEMENT OFFICE

LCM

IGA

MFA

PAM

SSO

Data Science

Information Technology Service Management

AUDIT

OCM

GRC

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Call to Action

1 Understand Context
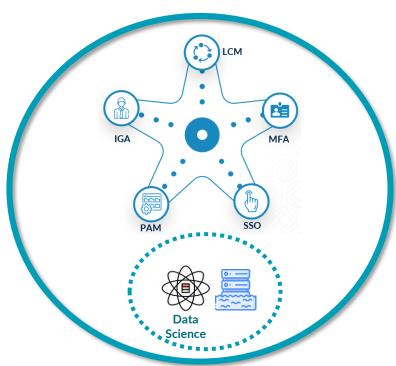
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Your Journey will take you Where?

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THANK YOU!