# **Gartner Data & Analytics Summit Summit 2018**

22 - 23 May 2018 / São Paulo, Brazil

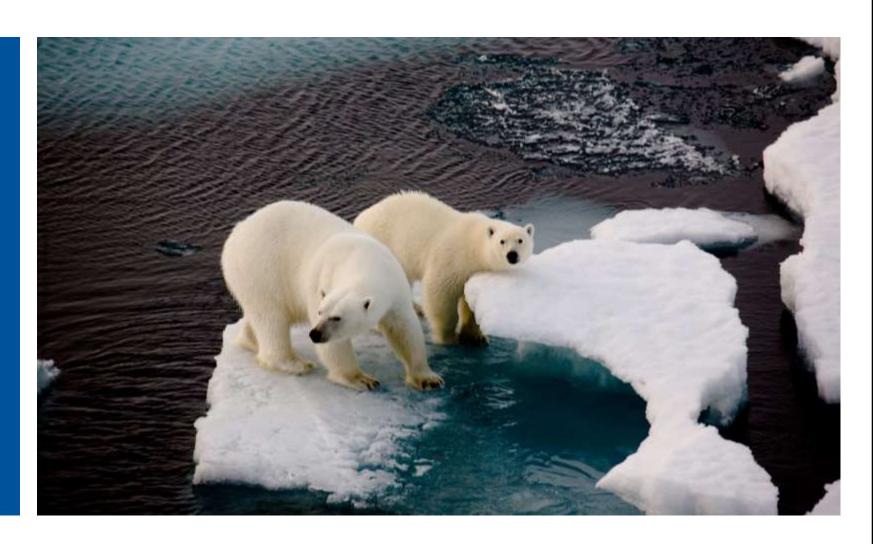


# The State of Data and Analytics Roles and Organization — From Control to Collaborate

Jorgen Heizenberg

# The World Is Changing — Time to Rethink

- Control
- Complex
- Ownership
- Adaptive
- Collaboration





# What is happening?



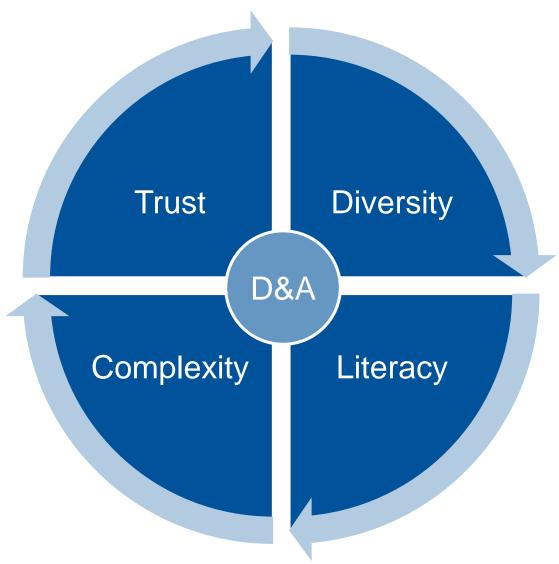
#### Don't Think Yourself Safe!

- ✓ The "Business" is my client
- ✓ We have service-level agreements in place
- ✓ We have skills and competences in place





# It Is Time to Scale Data and Analytics While Observing Four Key Dimensions





# The Full Spectrum of Enterprise Information Management

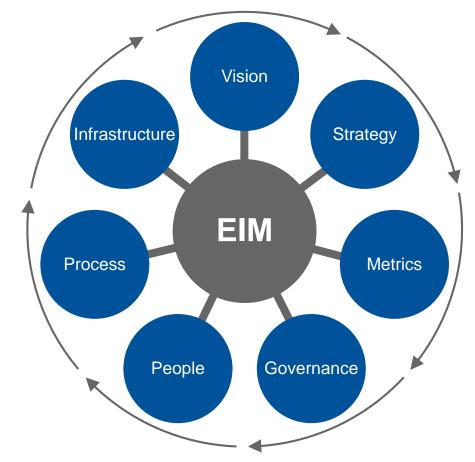
Program Framework

Master Data

**Application Data** 

Think Big, Start Small

Digital/Images



Align, Link and Leverage

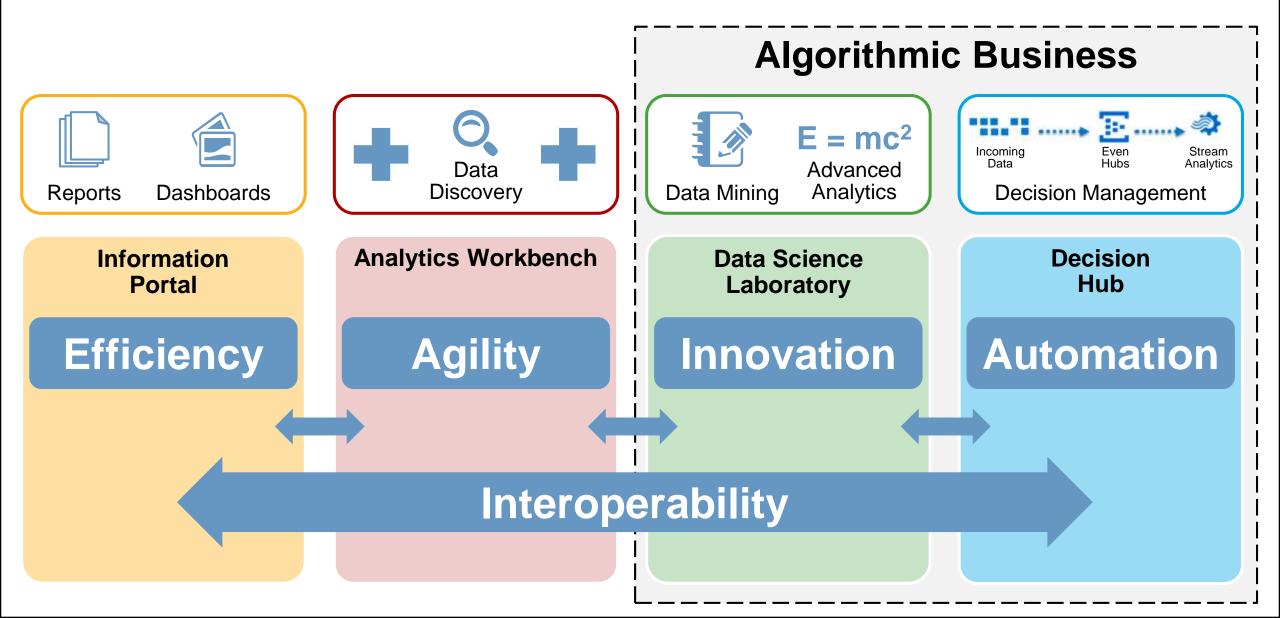
Data at Rest or in Motion

Content/Records





# The Full Spectrum of Analytics



# Impact on organization



### Best of Both: Centralized and Decentralized Organization

- Economies of scale
- Consistent corporate data
- Share best practices



- Fast deployment
- Supplement data
- Business unit reports and dashboards



#### **Best of Both: IT and Business Responsibilities**

- Partner with the business
- Install, maintain on-premises infrastructure
- Provision data storage, software, data
- Enforce security and governance policies
- Model and author for common requirements
- Sometimes model and author for business
- Consult, teach and evangelize
- Evaluate new technologies

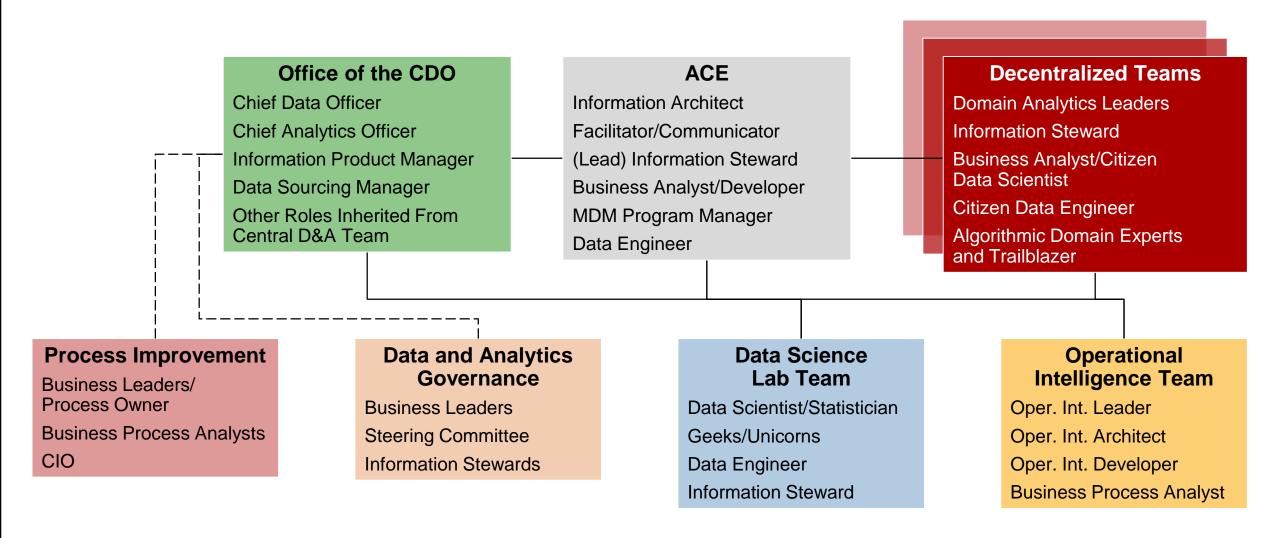


#### Business

- Partner with IT
- Acquire, explore new data sources
- Set policy and acceptable risk
- Rapid data modeling
- Author reports, dashboards for business-specific content
- Focus on business value



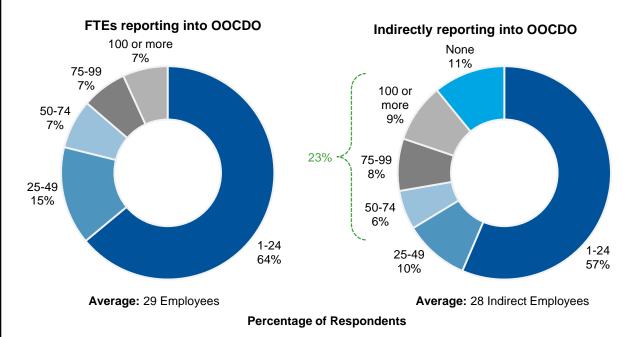
# Living in a Hybrid and Distributed Reality





#### The Office of the CDO Is Real

#### **Employees in Office of the CDO**

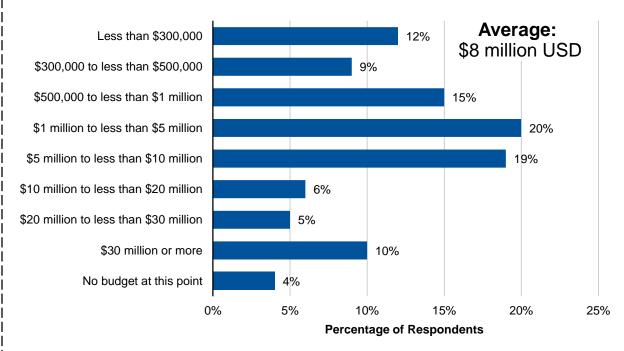


Base: Full/Partial office of CDO, n = 161

Q. How many full-time employees staff the office of the CDO?

Q. And how many additional full-time employees do you estimate indirectly report into the office of the CDO? "Survey Analysis: Third Gartner CDO Survey — How Chief Data Officers Are Driving Business Impact" (G00332689)

#### **Annual Budget of Office of the CDO**



Base: Full/Partial office of CDO, Excluding Unsure, n = 153

Q. What is the annual budget of the office of the CDO?

Note: Statistics are approximations calculated from range midpoints

"Survey Analysis: Third Gartner CDO Survey — How Chief Data Officers Are Driving Business Impact" (G00332689)



#### **BICC**

- Acquire and model the data
- Create data warehouses
- Create semantic models
- Author reports
- Grant access

#### ACE

- Provision, certify data, enable access
- Innovation lab
- Identify common requirements
- Consult on new projects
- Provide pool of experts
- Evangelize best practices, success stories
- Facilitate training and skills advancement



# **Moving From Control to Collaborate**

- Strategic Alignment
- Centralized and Federated
- Adaptive Mixed teams
- Cross Functional Skills
- Create Your Own Guiding Principles

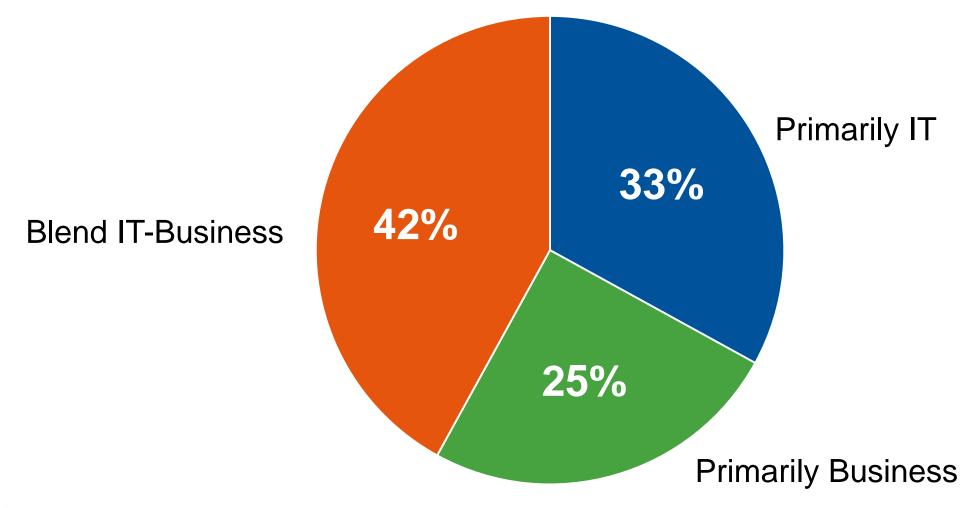




# Impact on roles



# **A New Hybrid World**

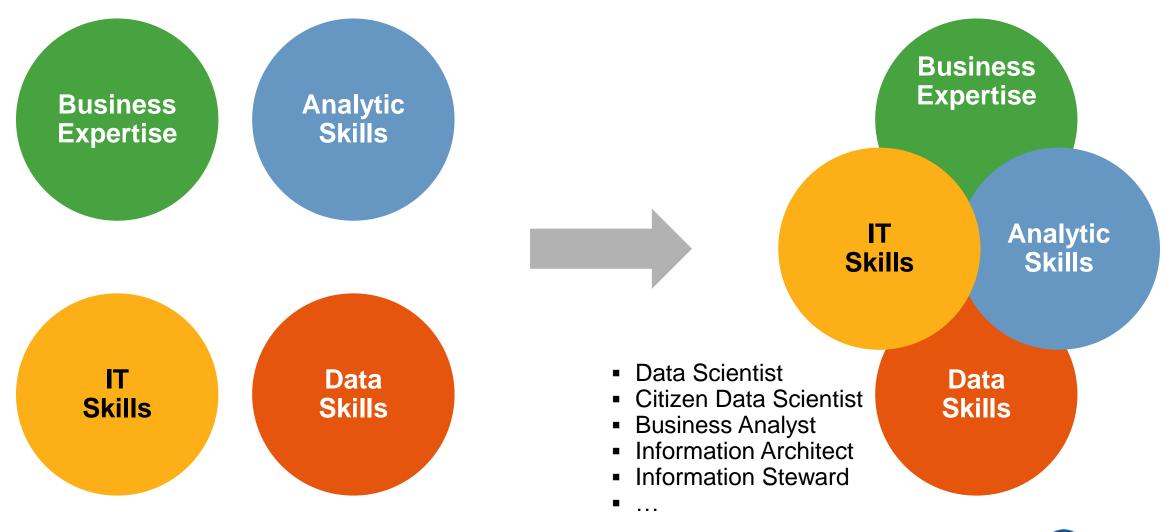




Source: 2016 Gartner Magic Quadrant BI and Analytics Platform Customer Survey



### Mixed Skills Lead to Hybrid "IT and Business" Roles



# **Balance Centralized and Decentralized Experts**

- Solution architect
- DBA
- Data integration lead
- Data engineer
- BI platform lead
- Report/Dashboard author
- Trainer
- Business sponsor
- Business analyst

#### Embed small BI teams into business units, networked with ACE

With easier, self-service data preparation tools, users with domain expertise can rapidly explore and model new datasets. These may or may not be promoted to governed areas.

Report writers and dashboard designers are experts in using a particular tool to build reports for specific requirements.

This role is embedded in the business unit. The analyst has a fundamental understanding of the business requirements and has the expertise to build analytical models to deliver on those requirements.



# Technology Advancements and Innovations Disrupt "Traditional" Roles

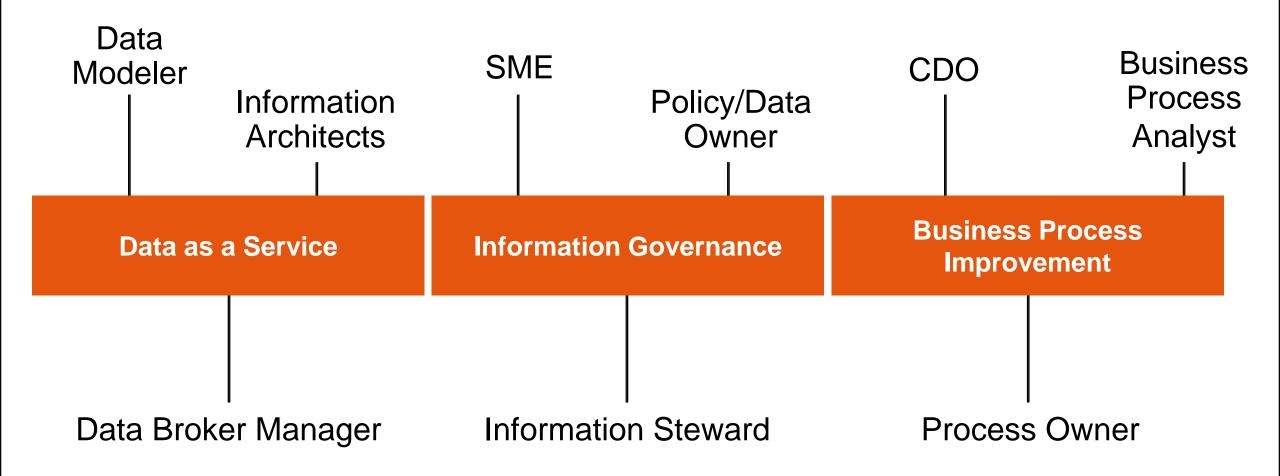
By 2019, citizen data scientists will surpass data scientists in the amount of advanced analysis produced.

- Self-service data prep.
- Modern analytics and Bl platforms
- Augmented analytics
- Data as a service



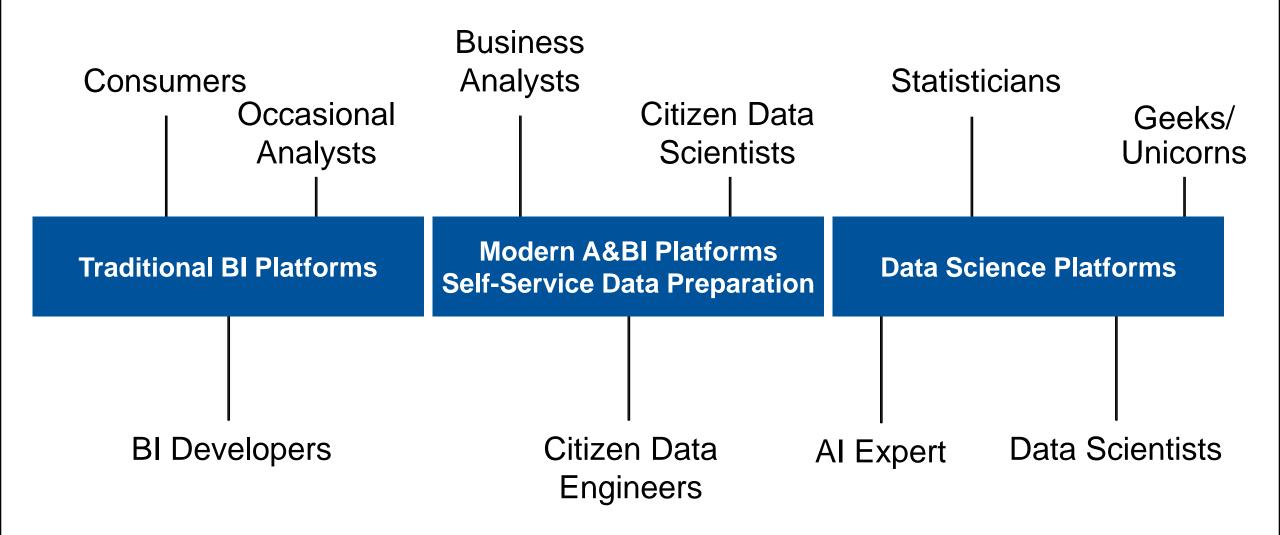


### The Emerging Spectrum of Data Roles





### The Emerging Spectrum of Analytics Roles





#### Spectrum

#### **Traditional:**

- Report builder
- DWH manager
- ETL builder
- Data modeler
- Etc.

#### **Current and emerging:**

- Citizen "whatever"
- Product manager
- CDO
- Facilitator, orchestrator
- Information steward
- Etc.

#### **Future:**

- Ethicist
- Data coach
- Evangelist
- Algorithmic trailblazer
- Chief privacy officer
- Etc.



# **Moving From Control to Collaborate**

- Hybrid Roles
- Leverage "Citizen" Roles
- Balance Traditional and Emerging
- Strategic Alignment With ACE and Office of CDO
- Build Your Own Guiding Principles





#### Recommendations: Move From Control to Collaborate

- Analyze your current organizational setup against these best practices and develop your own set of guiding principles.
- Work with domain and business unit leads to develop your hybrid and distributed organizational structure.
- ✓ Inventory your current roles, skills and competencies develop a plan to close skills gaps together with your business stakeholders.
- ✓ Plan for the new roles and associated skill sets that will be needed for the next three to 18 months.
- ✓ Work with HR to build a workforce development plan based on your data and analytics strategy.



#### **Recommended Gartner Research**

- Must-Have Roles for Data and Analytics, 2017
  Thomas W. Oestreich and Andrew White (G00309273)
- Why You Need to Rethink Your Data and Analytics Roles Now Thomas W. Oestreich and Frank Buytendijk (G00308242)
- Organizing for Effective Data Management in Digital Business Roxane Edjlali (G00315253)
- Staffing Data Science Teams
  Alexander Linden, Lisa Kart and Others (G00270087)
- Organizing Your Teams for Modern Data and Analytics Deployment Mark A. Beyer (G00280461)
- ► The 30 Capabilities That Your Analytics Center of Excellence May Be Lacking Douglas Laney, Jamie Popkin and Others (G00323119)



### Recommended Gartner Research (continued)

- Leading Upskilling Initiatives in Data Science and Machine Learning Peter Krensky, Shubhangi Vashisth and Douglas Laney (G00334219)
- Create a Centralized and Decentralized Organizational Model for Business Intelligence Kurt Schlegel, Frank Buytendijk and Dan Sommer (G00261728)
- ► Must-Have Roles for Data and Analytics, 2017 Thomas W. Oestreich and Andrew White (G00309273)
- **Business Intelligence Teams Need to Change With the Times** Alan D. Duncan (G00270899)
- CDO Reporting Relationships Can Make or Break Your Information **Management Program** Debra Logan and Joe Bugajski (G00274153)
- ▶ How and When to Use a Center of Excellence Ewan McIntyre and Kirsten Newbold-Knipp (G00294055)

