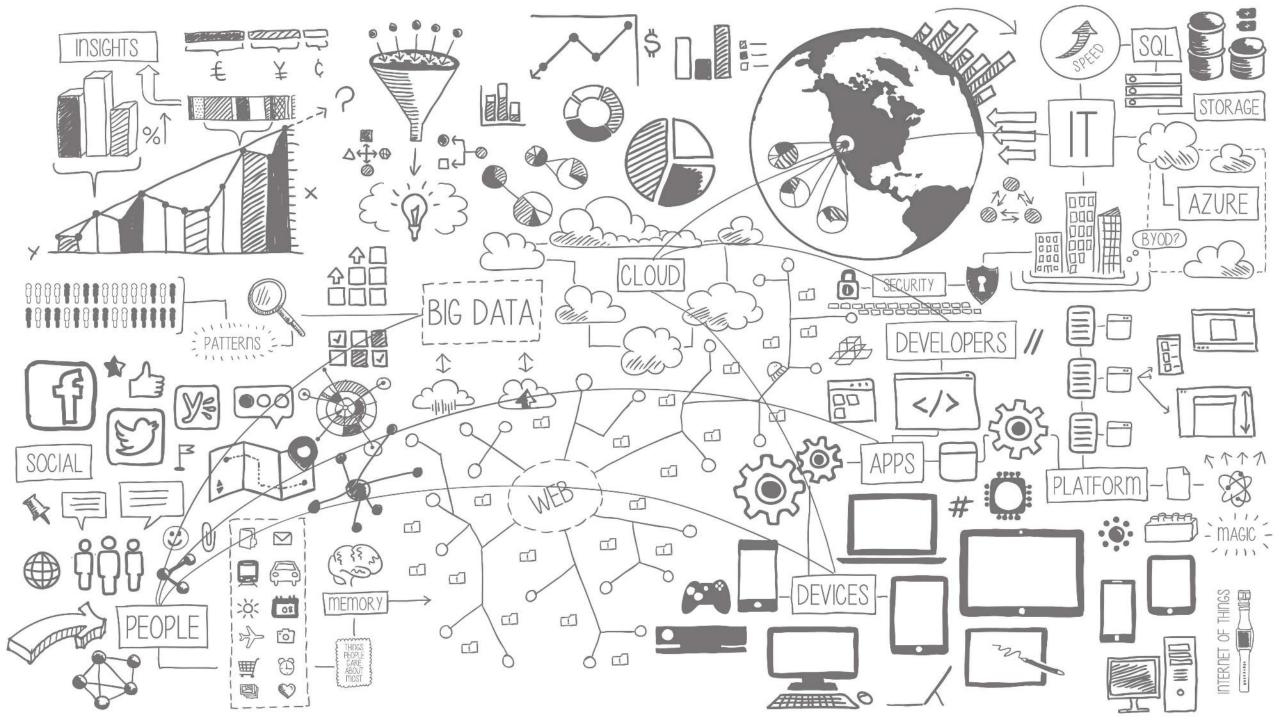
Data Is Integral To Our Culture



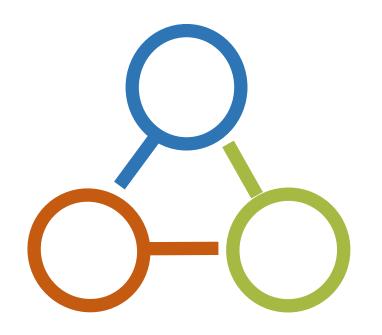


In the news



On the streets





Progress Update

Recommendation #3 of ITSM Top 5 Service Recommendations from February 2013

Enterprise Data & Analytics



Recommendation #3 summary

Expand the Enterprise Data Warehouse (EDW) by creating additional reports; including additional data elements; and providing a credible, consistent, and reliable data environment to allow users flexible methods to access information, with an emphasis on "self-service" and ad-hoc analytics.







Progress on expanding the Enterprise Data Warehouse via

- self-service and ease of use
- more reports and ad-hoc analytics
- data consolidation and mash-ups
- more data faster
- credible, consistent, and reliable data environment
- services, roadmap and what's next



"self-service & ease of use"

Innovation

Helping users make better decision faster





Business Intelligence Portal

UNIVERSITY of	WASHINGTON				UW HOME DIRECTOR	IES CALENDAR I	LIBRARIES MAPS MY UW
B.I. P Business Intell	Portal ligence Portal for UW Enterprise Data W	arehouse reports and analytics		A REPORTS	CUBES GLOSSARY	HELP	B.I. Portal 🗘
New to EDW? Read our getting started guide Attend an EDW 101 crientation improve your data handling ekills BI Portal Quick Guide C	My Favorites	Weither and the second seco	Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Nam Nam Nam	Market weighten Market See See See See See See See See See See See See See	Columns		
	Recommended Reports	Marketing Marketing <t< th=""><th>Variable Reporting Period Transaction Summary</th><th>Remaining Balance by OrgCode and Category</th><th></th><th></th><th></th></t<>	Variable Reporting Period Transaction Summary	Remaining Balance by OrgCode and Category			
Custom Budget Index Report by OrgCode	Most Popular Reports				FAS Batch Summary Report		
Maximum Market Non- Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market	Recently Added Reports	Status Notes Notes Notes Image: Status Image: Status Image: Status Image: Status Image: Status Image: Status Image: Status Image: Status Image: Status Image: Status		Andrew Strategy (1998) Andrew Strategy			

Intuitive

Flexible

Informative

Socialized

Customized

BI Portal: http://biportal.uw.edu

Online demo: http://decisionsupport.washington.edu/BIPortalTour.html





9

Innovation

Lowering the barrier to entry for self service analytics

Tableau Data Visualization Implementation

- UW purchased 175 Tableau Desktop licenses Nearly 150 people now using Tableau Desktop to develop visualizations
- Rolled out Tableau Server initially in support of UW Profiles Campus-wide Tableau rollout from Nov 2013 through March 2014

Major Achievements

- Tableau Desktop training for all faculty and staff
- Tableau User Group
- Several outreach road show events
- Setting up Single-Sign-On using SAML 2.0
- Automating server management
- Number of publications on/off campus

Students by Geographic Origin





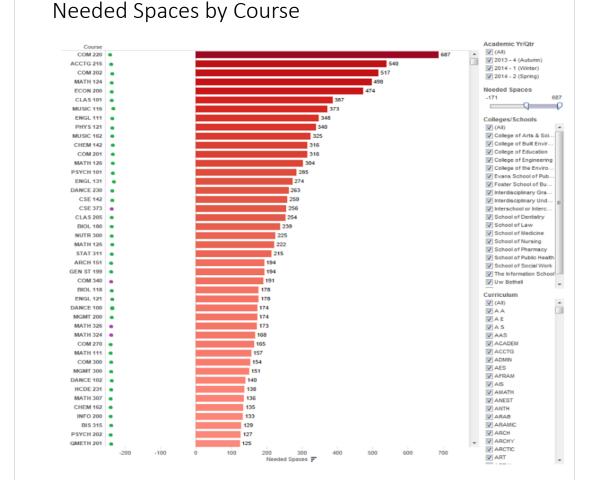
Enterprise Data & Analytics

Innovation

New methods to gain insight from the data we collect

Data Science - Notify Analytics

- Course demand and "Needed Spaces" helps plan for courses
- Shown to Deans, Chairs, UW-IT Town Hall, and UW Regents
- Released in August 2014
- A great example of cross-team collaboration (ACA and EDA)
- Leap Forward Day innovation





"more reports & ad-hoc analytics"

Impact The fruits of our efforts







Enterprise Data Warehouse

5 billion records

36 thousand columns

I.7 thousand tables

36 databases **Enterprise Business Intelligence**

280 SSRS reports 14 thousand runs/month

7 SSAS cubes20 thousand runs/month

26 Tableau dashboards 800 runs/month

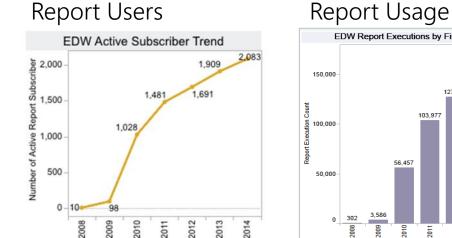
6,300 users 1.1 million direct queries/month



Impact Growth in report utilization

Reporting

- Steady usage growth continues ٠
- Top Users •
 - School of Medicine •
 - **Finance and Facilities** ٠
 - College of Arts & Sciences ٠
 - College of Engineering ٠
- Financial Reports most popular ٠



EDW Report Executions by Fiscal Year C. 164,699 157,166 127.615 103,977 56,457

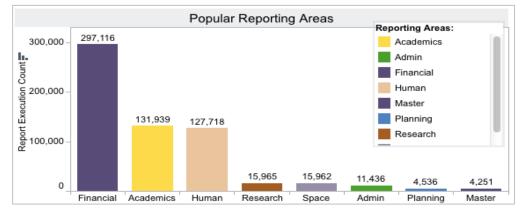
2010

2012 2011

2013

2014

Usage by Subject Area





Impact Explorative analytics and power tools

Release of Financial Cube 2013

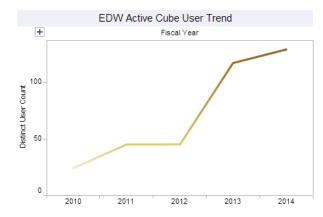
with Account Groupings and State Codes

- Higher usage as compared to previous year/same quarter: ~250% more traffic from F2
- Positioned us well for state audit

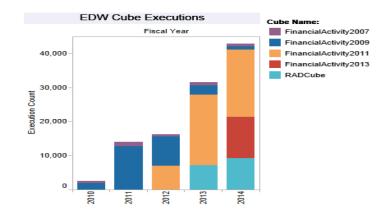
Research Awards Cube

- Usage up by 22% in 2014, but it is on the decline (quarterover-quarter)
- Addition of Proposals data coming soon

Cube Users



Cube Usage





Impact Explorative analytics and power tools

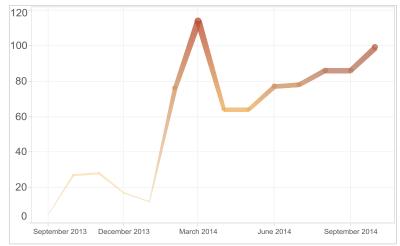
UW Profiles

- Released in Fall 2013
- 1100 Users have access to Profiles
- Viewed by 40+ people daily
- Highest usage by IR in Seattle, Tacoma, Bothell

Course Demand

- Released August 2014
- Daily visibility into unmet course demand

Visualization Users



Visualization Usage

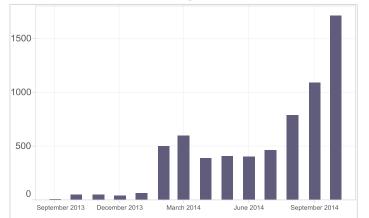




Tableau for students, teaching, faculty & staff

Tableau for Students

Free to full time students http://www.tableausoftware.com/academic/teaching

Tableau for Teaching

Enterprise Data & Analytics

Free to faculty teaching with Tableau http://www.tableausoftware.com/academic/teaching

Tableau for Faculty & Staff

A fee to create, free to interact <u>http://decisionsupport.washington.edu/tableau.html</u>

Tableau for Students downloads

1,720

UW is #1 worldwide higher education downloads

Tableau for Teaching downloads

1,915

61

udents using in classes

instruct

Tableau for staff & faculty135500Tableau Desktop users



"combine local with central data"

Data Consolidation

Filling gaps and supporting mashups



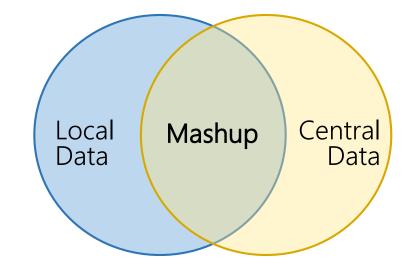


Data Consolidation

• Tableau supports mashups

Users can merge departmental data with central data

Data Management Committee supports publishing mashups on the Tableau Server



• EDDIE tools incorporates non-source system master data

e.g. Crosswalk between Academic and Financial organization







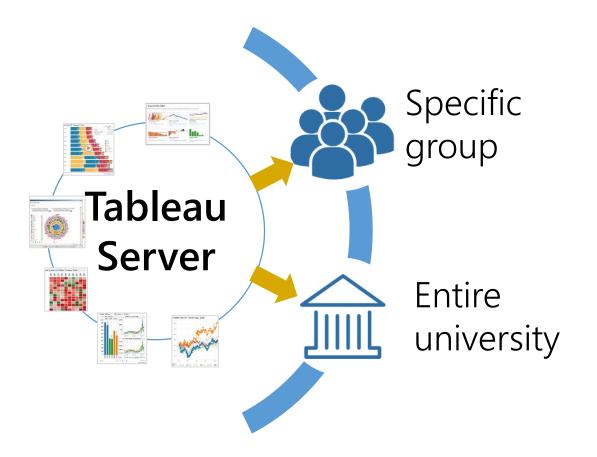
Analytics for all, using local & central data

Visualizations use EDW data, local data, or both

Share and collaborate

Access controlled by owner

Web-based, mobile-friendly





"additional data faster"

Impact Targeted delivery





Expanding EDW

Student Application History

"... expanded access to appl_histroy to more analysts via EDW improved job efficiency and accelerated reporting delivery"

- Tieming Lin, Director, Market Research/Director, Outreach Reporting Services

CIP to STEM

"We can now track our production of graduates against state and federal benchmarks and commitments, are better positioned to receive funding for STEM programs, and can better serve students whose visas are affected by their enrollment in STEM programs"

- Office of Planning & Budgeting

State Conversion Attributes

Enterprise Data & Analytics

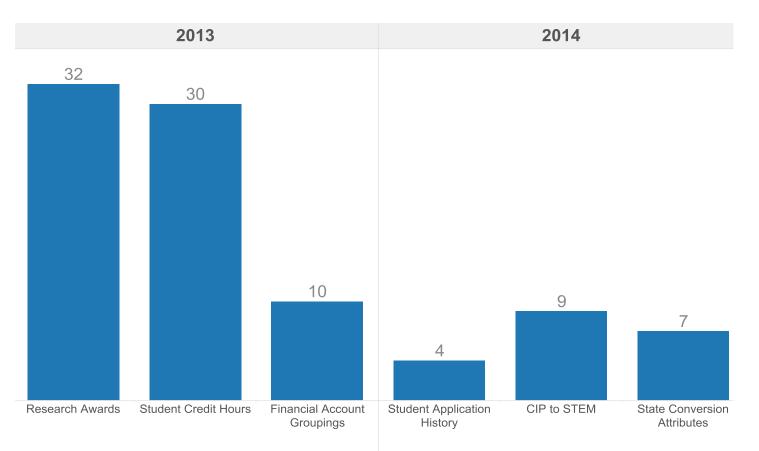
"THANK YOU to everyone who worked so hard on this project and partnered with us to add some desperately needed functionality to the cube. Really outstanding work done by all!"

- Dan Schaaf, Director of Financial Accounting

Rapid Delivery

Enterprise Data & Analytics

Weeks spent on EDW data build out projects



Focused scope allowed delivery with FY14 priorities, including:

- **Business Intelligence Visualizations**
- EDW Technology Renewal
- HR/P Modernization



"credible, consistent, reliable data environment"

Technology Renewal

Building for the future





EDW Technology Renewal

Results

- Completed in Aug 2014
- Smooth transition for EDW customers
- New hardware & software
- Faster BI and queries
- Ready for future projects (HRP/Finance)

Scale and Impact

- ■5000 People with EDW Access
- ■700 power users
- ■15 servers
- 40 databases
- 2000 tables (5 billion records)



Roadmap & What's Next

Strategic Direction





Enterprise Data & Analytics Vision

WHY

- Advancing the Data-Driven Decision Making Culture
- Satisfied and empowered data users

WHAT

Easy Integration

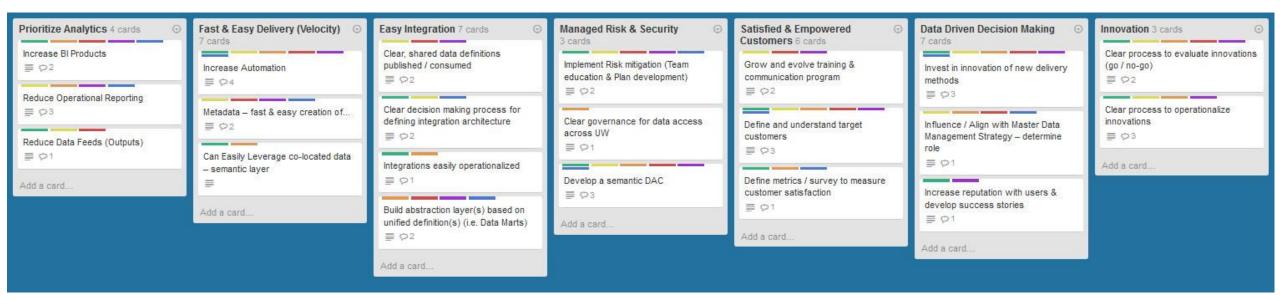
Fast & Easy Delivery

How

- Prioritize Analytics
- Manage Risks & Security
- Innovate



Strategic Plan







What's Next





Describing Our Services

Service Catalog Approach

Service Offering	Services Offered		
	Enterprise Data Warehouse		
Enterprise Data	Reports/Cubes/Visualizations		
Warehouse & Analytics	Tableau Licensing		
	Education & Training		

Capabilities Approach

"Information for Decision Making"

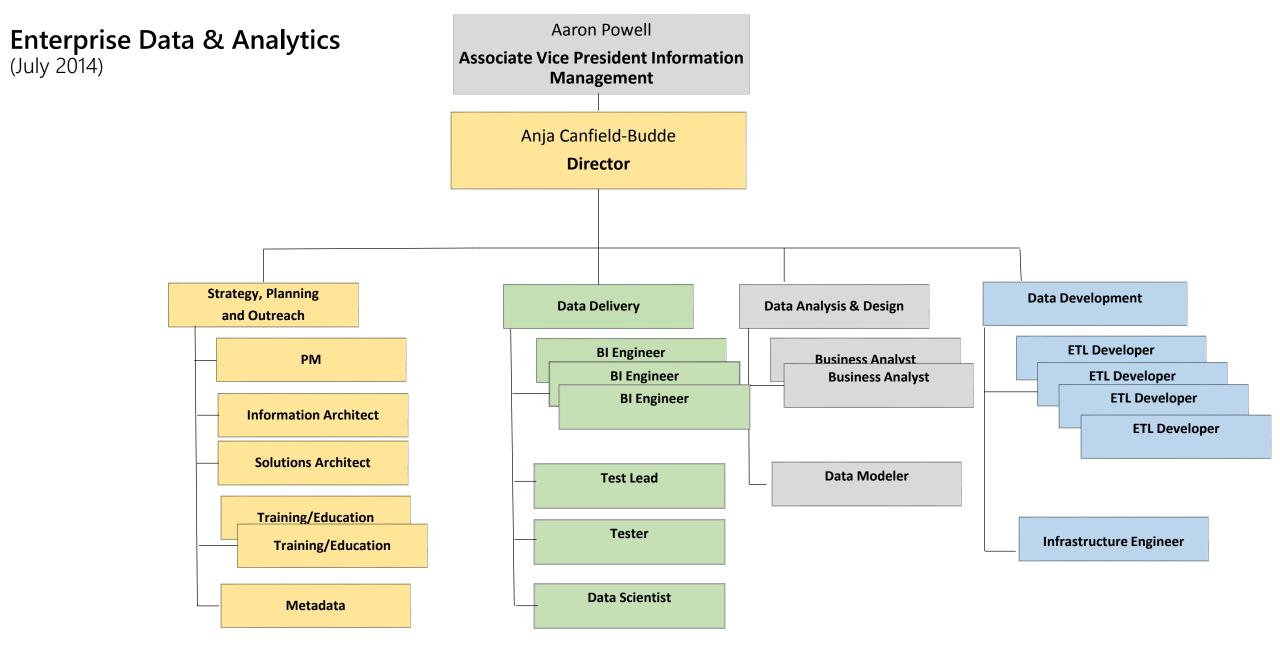
Category	Capability	Description		
	Access and find enterprise data & analytics	Business Intelligence Portal, UW Profiles Portal, Website		
Administrative Systems	Explore and analyze enterprise data	Reports, cubes, visualizations, Tableau license and user management		
- ,	Understand enterprise data	Training and education, metadata repository		
	Produce enterprise data	Master data, metadata		
IT Management	Consulting	Information design, analysis and architecture, security & data access; extract, transform, and load data		



Appendix











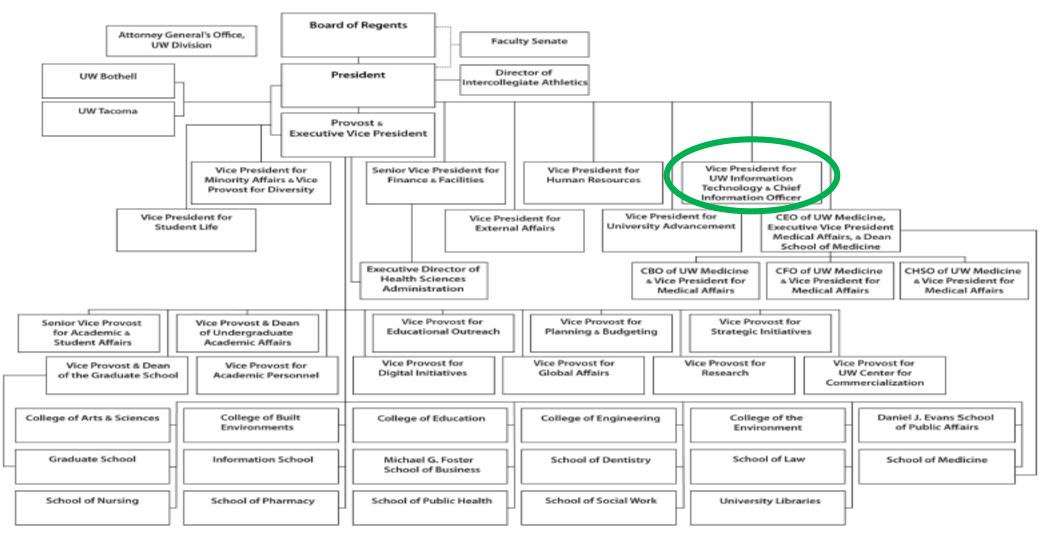
Administrative Policy Statements

January 8, 2014 **1.1**

University Organization Chart

(Approved by the President by authority of the Board of Regents Governance, Standing Orders, Chapter 1)

This chart reflects the reporting relationships within the University of Washington. Select any box on this chart to link to more detailed information in APS 1.2, University Wide Leadership List.



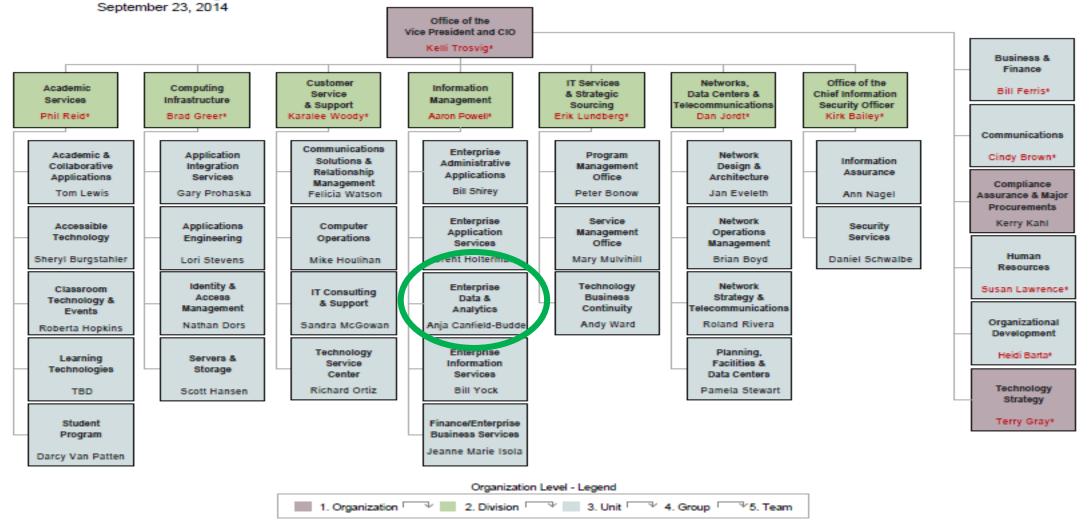




INFORMATION TECHNOLOGY

UNIVERSITY of WASHINGTON

Hierarchical Organizational Chart



* Senior Leadership

