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# Different Eras for Institutional Research at CSUSM

- The Good Old Days, 2000-2005
- Period of Growth, 2006-2010
- Free for All, 2011-2015
- Development of Processes and Governance, 2015-present

#### The Good Old Days, 2000-2005

- Enrollment around 6200 students
- Extended Learning was small and insignificant
- Institutional Research dealt with institutional data
- IR helped with grants occasionally
- ERS done by enrollment services (EMS), APDB by Academic programs
- Banner queries done by EMS, data given to IR

#### Notable Characteristics: Good Old Days

- No EL workload
- Focus on Institutional Data
- Data requests fewer and manageable, more reports, less data providing
- Tools Used: SPSS, some BRIO queries, CIRP survey

#### Period of Growth, 2006-2010

- Enrollment about 9,700 students in 2010
- Grant requests increase drastically, needing more information: First Generation, Low Income
- Program specific information needed (EOP, SSS, CAMP)
- Surveys increase, many are duplicative
- PeopleSoft brings issues- reporting, data transfer, mapping
- Extended Learning offers regular courses due to budget cuts
- CSUSM President uses data driven decision making

#### Notable Characteristics: Growth Period

- EL explodes- how many students do we have?
- APDB arrives, process improvement
- IR on committees, HSI, AANAPISI
- Programs provide student lists for merging- are they accurate?
- Tools Used: SPSS, Data merges, CIRP survey, other surveys
- Busy period makes it hard to control data properly

#### Free For All, 2010-2015

- Multitude of data requests, no process
- Requestors ask different people for same data
- Analysts develop "fans" that ask them for anything and everything
- No Common data definitions: enrolled vs. active student queries
- Requests for any type of data forwarded to IR- library expenditures, financials, surveys people signed up for
- Extended Learning has explosive growth

#### Free For All, continued

- Queries used, non-institutional data becomes IR function
- Providing data for informed decisions becomes IR job
- Grant requests multiply, NIH, STEM
- Faculty and Employee Counts, cross departmental collaboration

#### Notable Characteristics: Free for All

- Surveys become intrusive, overwhelming- Survey Committee formed
- ERS and APDB processes become important to get base data right- a big realization
- Data confidentiality, outside requests, dissertations, students
- The need for data control and processes is painfully obvious



# Development of Processes and Governance, 2015-present

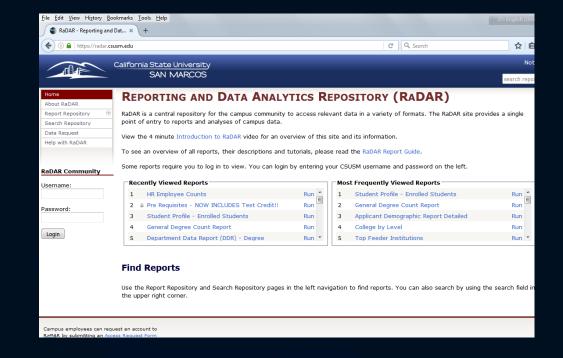
- Decision Support Group formed (Joint IITS, IR and other entities) to discuss data issues and requests
- Data Request and Tracking process formed to develop a process for tracking and assigning and declining data requests
- Improving the process of analysis with new data warehouse and visualization tools
- Data Governance Committee formed to develop, implement and enforce data policies

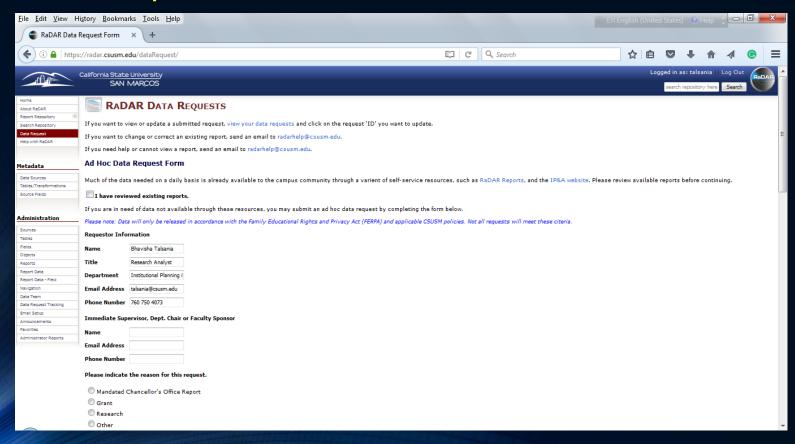
# Decision Support Group (DSG)

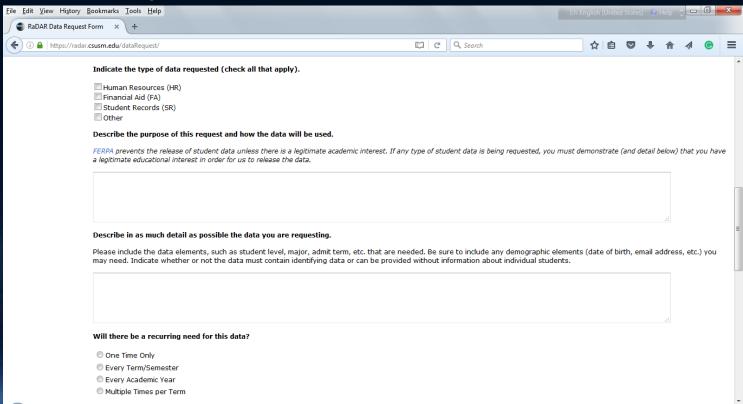


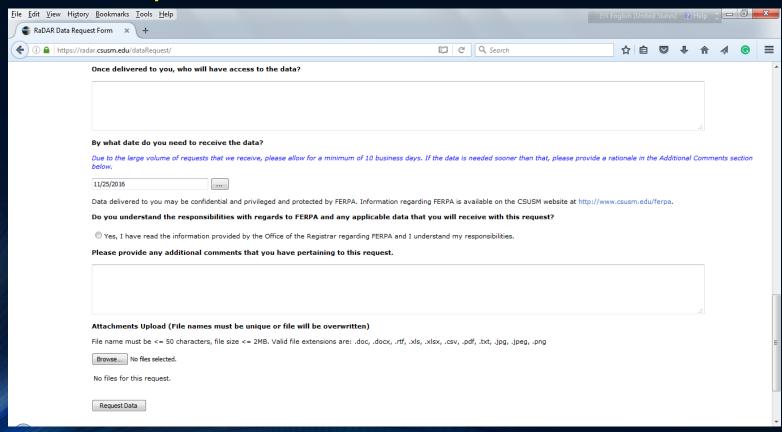
- Consists of key IITS and IR professionals
- Meets bi-weekly for 2 hours
- Creates collaboration and communication, access to each other
- Discusses upcoming issues and events, due dates, and initiatives
  - HIPS, GI 2025, the infamous B-P files
- Discusses data request process, workload, who gets what requests
  - Institutional and static reportable data to IR
  - Queries and RaDAR report enhancements to IITS
  - Complex queries to the data steward in various departments

- Must have a campus log in
- Requestor identify themselves AND their supervisor
- Must provide the reason and type of data requested
- Requestor checked all available existing reports
- FERPA addressed and acknowledged









#### Data Request Tracking

Assigned a number & send confirmation email to requestor

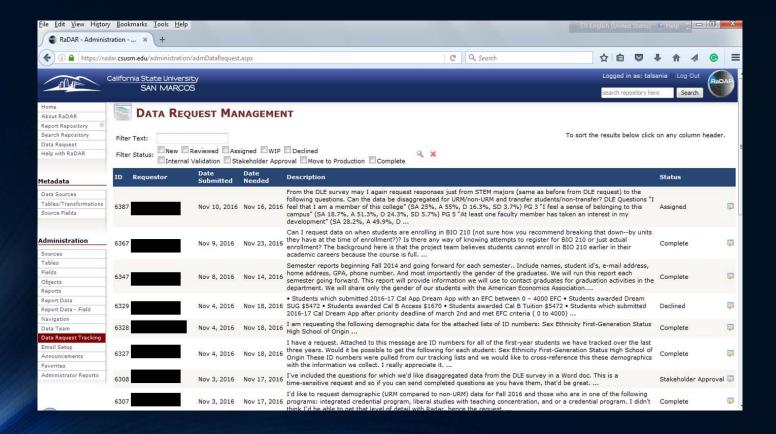
Request is then either denied or assigned

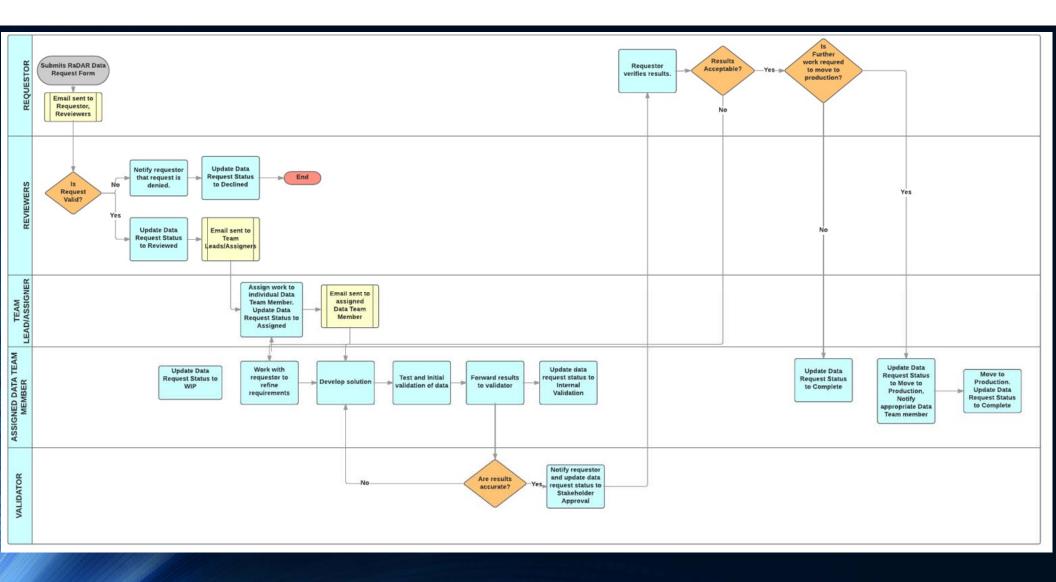
Requests are examined and prioritized

Request are updated according to status

Effects: fewer unusual requests (number of homeless students, student gamblers, course evaluations) if name is attached

### Data Request Tracking





#### Advantages

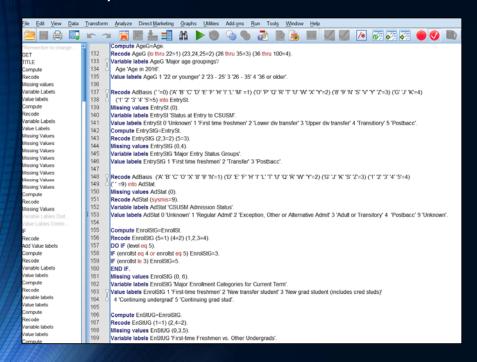
#### DATA REQUEST FORM

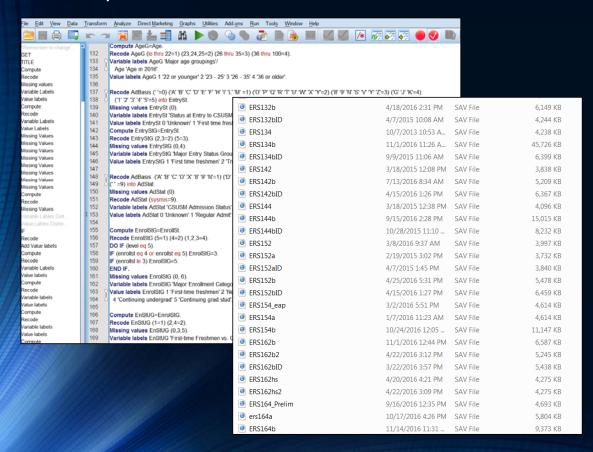
- One-Stop-Shop for the campus
- Transparent
- Formalized

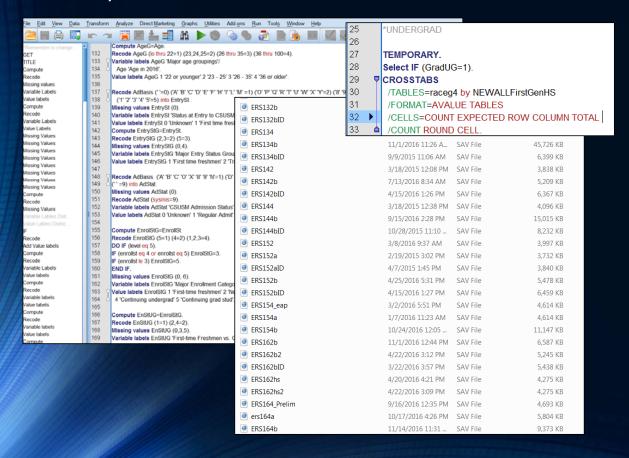


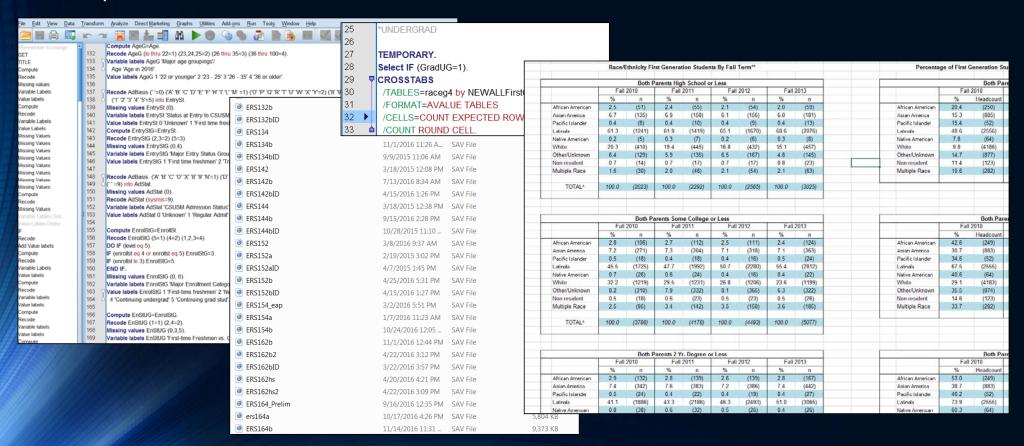
#### DATA TRACKING PROCESS

- Record of the data request
- Working with across divisions and departments
- Analysts can be on vacation

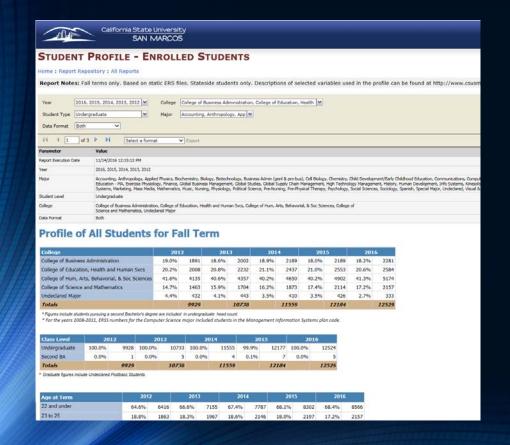


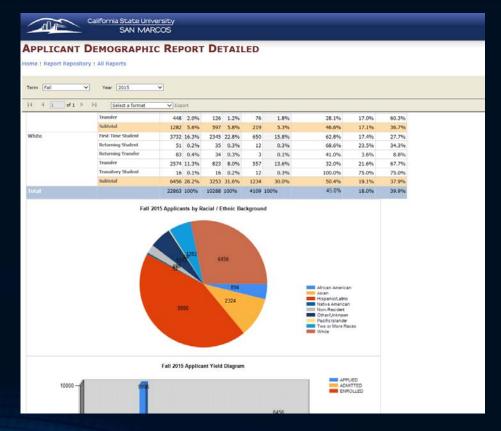




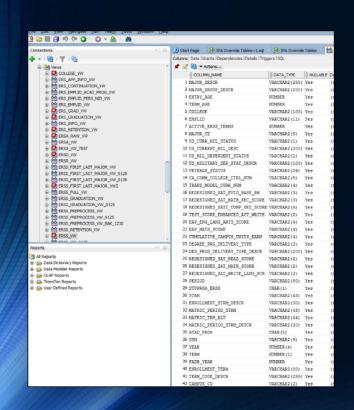


RaDAR, our first attempt at self-service...

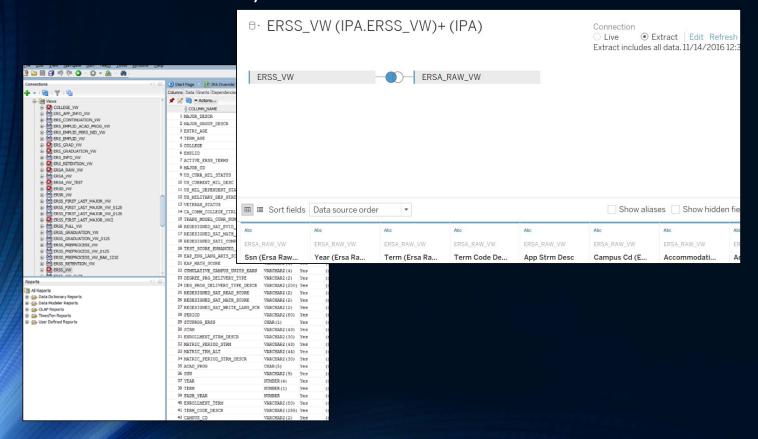




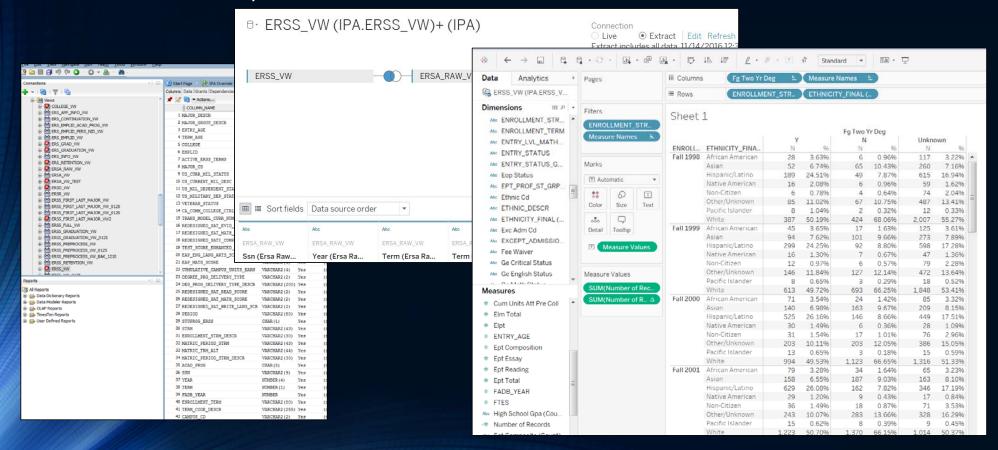
A new data warehouse...



And a new data analysis tool...

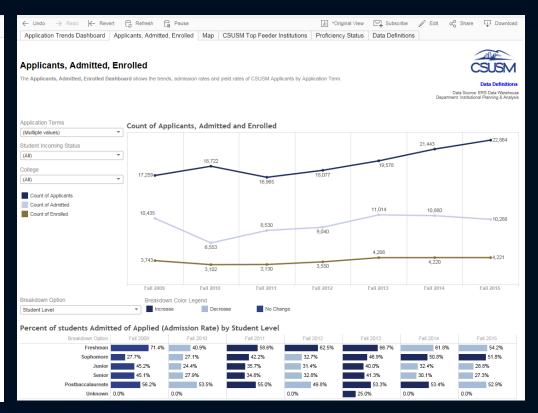


And a new data analysis tool...



Tableau, the next step in self-service...





#### Goals:

- Fewer simple and repeat data requests
- Non-"data people" exploring and understanding data
- Shorter time to completion of requests
- More resources available for research and analytic projects
- Single source of truth (or at least fewer sources of truth) with consistent metrics and data definitions

#### Data Governance



- Convened by the President of CSUSM
- Ensures a formalized and systematic approach to data and information security and management
- Specifies organizational data related decisionmaking authority (Data Steward)
- Identifies and maintains data standards, policies and procedures (PS data entry, student groups, when and how data is updated)

#### **Data Governance Functions**

- Establish priorities for reporting, dashboard development and analytics
- Provide cross functional oversight and prioritization for Business
   Intelligence Projects, recommend new BI and analytics capabilities
- Recommend operating policies and practices that focus on data standardization
- Identify required information and related data; manage metadata documentation
- Ensuring a common understanding and consistent interpretation of data; ensure data are uniquely and consistently defined

#### Data Governance Functions (cont.)

- Develop policies and rules for data access levels, permissions and confidentiality
- Reducing redundancy, Mediating escalated data issues
- Identify and assign data stewards. Provide guidance to ensure data are:
  - Accurate, complete, timely and relevant
  - Collected, maintained, used and disseminated in accordance with confidentiality and security policies
  - Meet the goals of promoting access to and use of data
  - Creating, maintaining and approving metadata definitions and data quality

#### Data Governance Members

- Dean and CIO, Instructional and Information Technology Services (Co-Chair)
- Director, Institutional Planning & Analysis and Decision Support (Co-Chair)
- Vice Provost
- Associate Vice Presidents: Administration, Student Academic Support Services, Enrollment Management Services, Community Engagement
- Executive Director, IT Projects
- Associate Dean, Extended Learning
- Director of Advancement Services
- Registrar
- Senior BI Analyst
- Assistant Director, Institutional Planning & Analysis and Decision Support
- Information Security Officer



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