

# RCCD Dashboards: Data Democratization and Visualization for Decision-making and Planning

Presentation to Board of Trustees  
Planning, Effectiveness, and Governance Board Committee

September 6, 2022

# Purpose of Presentation

- To provide an update on the state of data dashboards throughout the district.
- To provide examples of the wide-ranging types of dashboards currently in use.
- To demonstrate how dashboards can be used for planning, at the college and the district levels.

# Previous Presentations to the Board of Trustees

**RCCD** | RIVERSIDE COMMUNITY  
COLLEGE DISTRICT

Riverside Community College District

Business Intelligence  
Data Dashboards

*March 2, 2020*

Introduced dashboards as information and planning tool to the district.

Introduced scaling the dashboards via funds from the Partnership Resource Team.

**RCCD** | RIVERSIDE COMMUNITY  
COLLEGE DISTRICT

Riverside Community College District

Partnership Resource Team  
Outcomes and Progress-to-Date

*May 4, 2021*

Established a districtwide data storage and reporting system.

Established platform for data dashboards for publishing.



MVC
NC
RCC

Academic Year
Session
Department

All
All
All

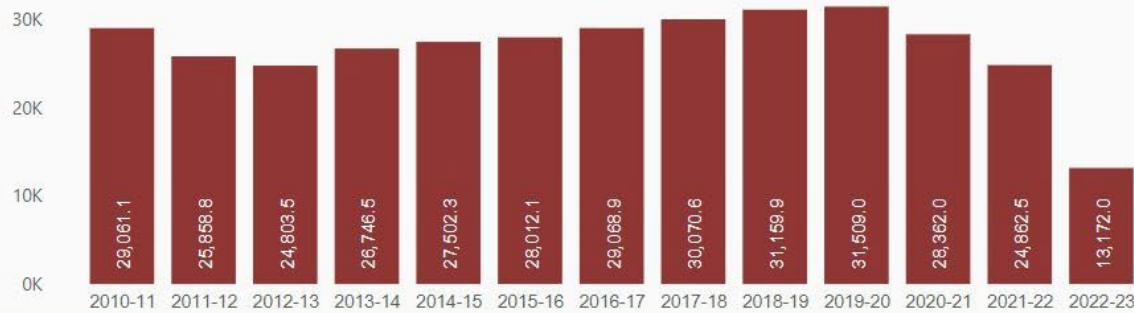
**Filters**

## FTES Trend (RCCD)

### Visualizations



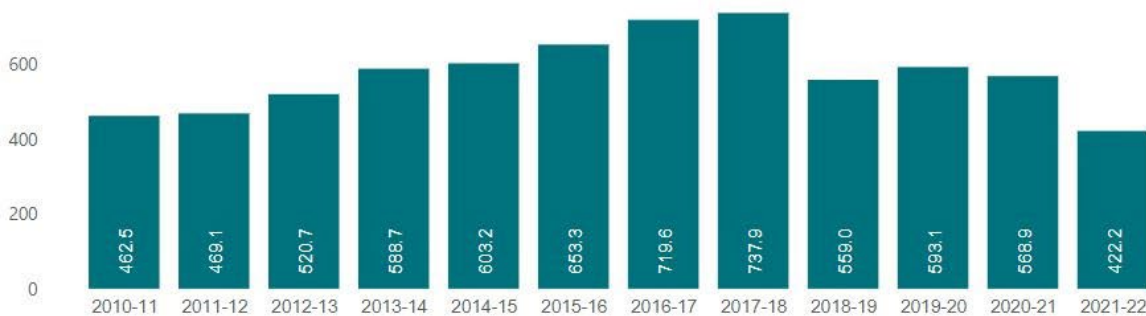
Resident FTES: (In-progress terms reflect FTES estimates)



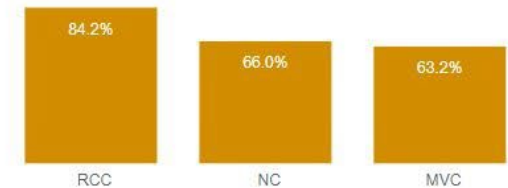
Progress to FTES: Includes Res + non-Res

Term College	Target FTES	Enrolled FTES	% of Target
22FAL RCC	6,754	6,391.3	94.6% <span style="color: red;">●</span>
22FAL NC	3,025	2,279.1	75.3% <span style="color: red;">●</span>
22FAL MVC	2,737	2,122.0	77.5% <span style="color: red;">●</span>
<b>Total</b>	<b>12,516</b>	<b>10,792.4</b>	<b>86.2%</b>

Non-Resident FTES (In-progress terms data not available)



Scheduling Effectiveness



## District Institutional Research Dashboards

- Two flavors of dashboards: Internal Data and External Data
- Internal/Live Data are updated automatically as the data source updates.
- External Data is imported from different sources, like US Census, government agencies.
  - Can be either live or historical.

## Public- Facing Dashboards

- The public data dashboards below are based on Management Information Systems (MIS) referential files downloaded from the State Chancellor's Office and are presented at the aggregate-level.
  - Student Headcount
  - Course Success
  - Program Awards Conferred
  - Employee Headcount

# Front Facing Dashboards- Demo

DISTRICT COLLEGES/CENTERS STUDENTS COMMUNITY

## Institutional Effectiveness

Home

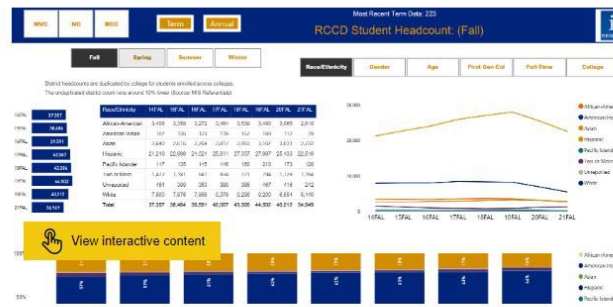
**Dashboards**

Institutional Data & Reporting

## Public Dashboards

The data dashboards below are aggregated and are based on Management Information Systems (MIS) referential files downloaded from Data on Demand on CCCC portal.

### Student Headcount



### Course Success

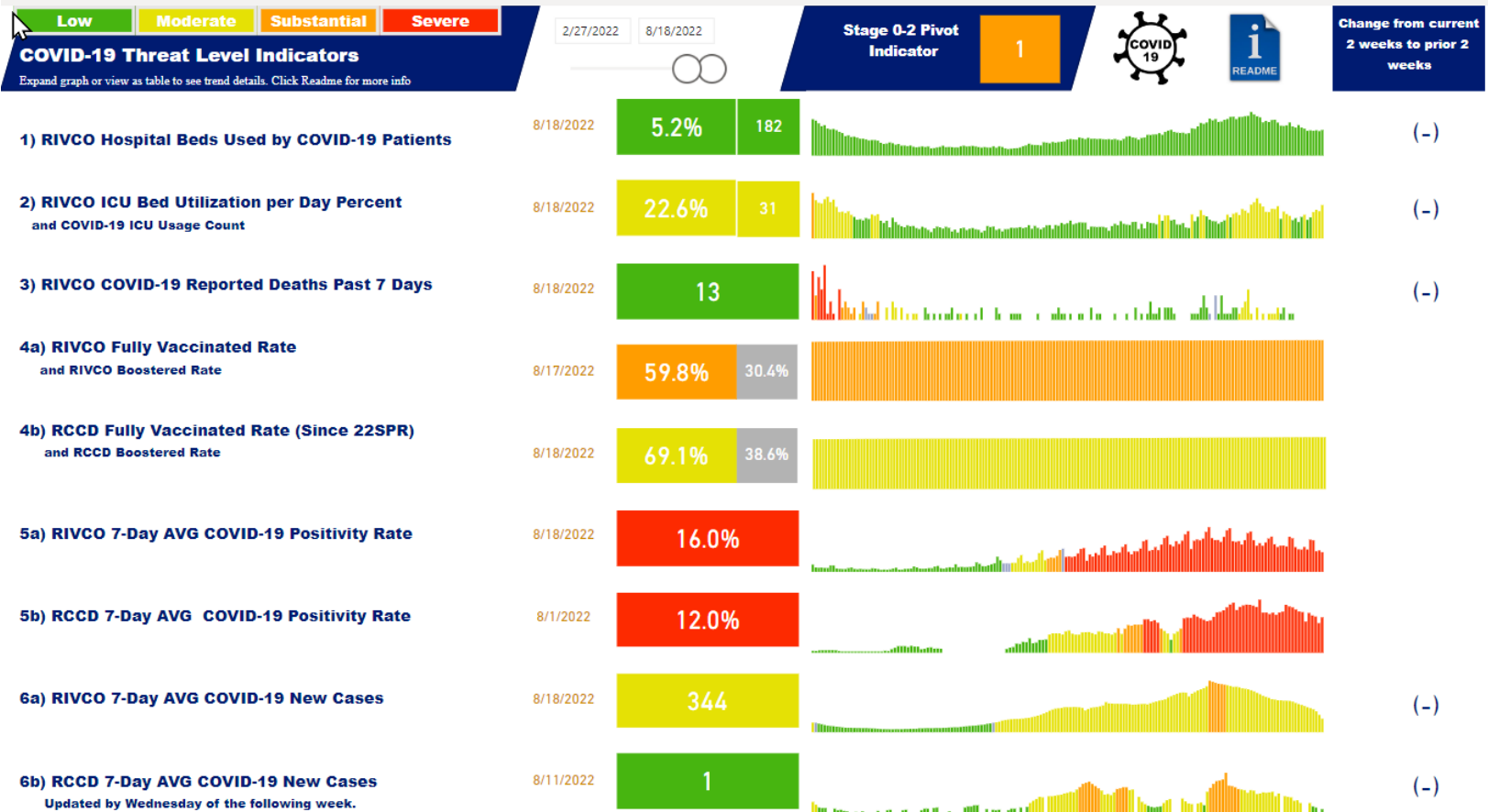


# Internal Dashboards

- The public facing dashboards do not have any personally identifiable information in them.
- Some dashboards designed for internal staff use may contain sensitive student information, and requires RCCD Windows Authentication to access them.
- RCCD faculty members, administrators and classified professionals who have legitimate purposes can access these dashboards.



## Internal Data: Threat Level PIVOT from COVID-19 Dashboard



## Internal Data: Enrollment Management Dashboard



# Disproportionate Impact – Course Success

MVC	NC	RCC	Table View	Chart View	Course Success Equity RCCD	1,464,977												
					2015-16 - 2021-22	Enrollments												
Race/Ethn	Gender	Age	College	Course	Discipline	Division	DSPS	EOFS	First Gen	Foster	Homeless							
Success and equity output are masked with an asterisk (*) for enrollments below 10, and a dash (-) for when a single faculty is in the course taught.																		
Academic Year	Term	Division	Discipline	Course	COVID EW Grade	Special Admit (term)	Race/Ethn	Enrol	Retained	Retention Rate	Success	Success Rate	PPG-1	PPG Error	PI	PPG Flag	PI Flag	Close Equity N
All	All	All	All	All	All	All	African-American	128,175	106,569	83.1%	77,979	60.8%	-8.5%	-0.27%	89%	⊗	⊗	10,892
							Female	73,927	61,026	82.5%	45,238	61.2%	-7.8%	-0.35%	89%	⊗	⊗	5,773
							Male	53,213	44,653	83.9%	32,074	60.3%	-8.6%	-0.42%	88%	⊗	⊗	4,583
							Unreported/ Other	1,035	890	86.0%	647	62.5%	-6.1%	-2.95%	91%	⊗		64
							American Indian	4,725	3,970	84.0%	3,009	63.7%	-5.0%	-1.37%	93%	⊗		235
							Female	2,691	2,220	82.5%	1,715	63.7%	-4.9%	-1.82%	93%	⊗		132
							Male	1,978	1,707	86.3%	1,275	64.5%	-4.2%	-2.11%	94%	⊗		83
							Unreported/ Other	56	43	76.8%	19	33.9%	-34.7%	-12.40%	49%	⊗	⊗	20
							Asian	116,230	104,108	89.6%	91,769	79.0%	11.2%	-0.23%	115%			
							Female	55,957	50,522	90.3%	45,391	81.1%	13.0%	-0.32%	118%			
							Male	59,039	52,492	88.9%	45,443	77.0%	8.7%	-0.34%	112%			
							Unreported/ Other	1,234	1,094	88.7%	935	75.8%	7.2%	-2.39%	110%			
							Hispanic	952,326	805,933	84.6%	633,803	66.6%	-5.5%	-0.09%	97%	⊗		52,052
							Female	561,319	475,907	84.8%	376,508	67.1%	-2.4%	-0.12%	98%	⊗		13,717
							Male	383,953	323,945	84.4%	252,458	65.8%	-3.8%	-0.15%	96%	⊗		14,713
							Unreported/ Other	7,054	6,081	86.2%	4,837	68.6%	-0.1%	-1.08%	100%			4
							Pacific Islander	6,851	5,901	86.1%	4,537	66.2%	-2.4%	-1.12%	97%	⊗		166
							Female	3,361	2,857	85.0%	2,124	63.2%	-5.4%	-1.63%	92%	⊗		183
							Male	3,375	2,935	87.0%	2,331	69.1%	0.4%	-1.56%	101%			
							Unreported/ Other	115	109	94.8%	82	71.3%	2.7%	-8.27%	104%			
							Two or More	36,091	30,447	84.4%	24,271	67.2%	-1.4%	-0.48%	98%			509
							Female	20,602	17,341	84.2%	13,871	67.3%	-1.3%	-0.64%	98%			271
							Male	15,259	12,900	84.5%	10,254	67.2%	-1.4%	-0.74%	98%			220
							Unreported/ Other	230	206	89.6%	146	63.5%	-5.1%	-6.22%	93%			12
							Unreported	9,863	8,701	88.2%	7,187	72.9%	4.3%	-0.88%	106%			
							Female	4,192	3,712	88.5%	3,123	74.5%	5.9%	-1.32%	109%			
							Male	4,476	3,947	88.2%	3,223	72.0%	3.4%	-1.32%	105%			
							Unreported/ Other	1,195	1,042	87.2%	841	70.4%	1.8%	-2.59%	103%			
							White	279,371	244,904	87.7%	209,898	75.1%	8.0%	-0.16%	109%			
							Female	149,739	131,124	87.6%	113,469	75.8%	7.9%	-0.22%	110%			
							Male	126,539	111,126	87.8%	94,198	74.4%	6.3%	-0.24%	108%			
							Unreported/ Other	3,093	2,654	85.8%	2,231	72.1%	3.5%	-1.58%	105%			
<b>Total</b>								<b>1,533,632</b>	<b>1,310,533</b>	<b>85.5%</b>	<b>1,052,453</b>	<b>68.6%</b>	<b>68.6%</b>	<b>-0.07%</b>	<b>100%</b>			

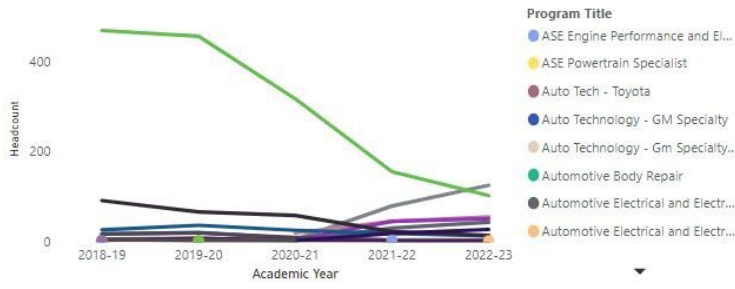
# Timely Outreach: Program Of Study Contact

MVC NC RCC
2022/08/23 6:32AM
1,567 3,352
Annual Headcount (Active Enrollment) by Program of Study
CTE Stud Program Status

Acad Program Title: All  
 Acad Program: All  
 Academic Year Enrol: All  
 TOP2: All  
 TOP4: 0948 Automotive Technology  
 Acad Program Type: All

Unduplicated headcount (active enrollment) by year along with student active program(s).  
 If no active program is found, the most recent inactive program(s) are returned (Graduated and Lost Catalog Rights)  
 Drill-through to student list by right clicking on Headcount number then Drill through.

Academic Year	Active		Graduated		Lost Catalog Rights	
	Headcount	%	Headcount	%	Headcount	%
2018-19	567	94.34%	31	5.16%	3	0.60%
2019-20	539	93.90%	24	4.18%	11	1.92%
2020-21	379	93.35%	20	4.93%	8	1.97%
2021-22	372	98.15%	7	1.85%		
2022-23	398	99.75%	1	0.25%		
<b>Total</b>	<b>1,520</b>	<b>97.00%</b>	<b>40</b>	<b>2.55%</b>	<b>16</b>	<b>1.02%</b>



Program Title	2018-19	2019-20	2020-21	2021-22	2022-23	Total
Automotive Technology-Mechanical	468	455	316	154	101	953
Automotive Engine Performance Specialist			4	78	124	160
Automotive Technology-Electrical	90	65	57	21	13	151
Automotive Hybrid and Electrical Vehicle			18	44	54	89
Automotive Technology - Electrical	25	35	24	17	12	72
Automotive Powertrain Specialist			3	44	50	71
Automotive Electrical and Electronics Specialist			1	29	42	65
Auto Technology - GM Specialty	16	19	6	2	2	35
Automotive Undercar Specialist			1	17	26	34
Automotive Technology-Ford Specialty	16	18	8	2		32
Automotive Technology-Mechanical - Plan B	5	6	1	1	1	9
Automotive Technology-Mechanical - Plan C	2	6	2	1	1	8
Automotive Technology	3	2				4
Automotive Technology-Toyota	3	2	1			4
Undecided	3	2	1			4
Automotive Hybrid and Electrical Vehicle - Plan C				3	3	3
Automotive Powertrain Specialist - Plan C				2	1	3
ASE Engine Performance and Electric Specialist				2		2
Automotive Electrical and Electronics Specialist - Plan C				2	1	2
Automotive Engine Performance Specialist - Plan C				2	1	2
Automotive Hybrid and Electrical Vehicle - Plan B				2	1	2
ASE Powertrain Specialist				1	1	1
Auto Tech - Toyota			1	1		1
Auto Technology - Gm Specialty - Plan C	1	1				1
Automotive Body Repair			1			1
<b>Total</b>	<b>601</b>	<b>574</b>	<b>406</b>	<b>379</b>	<b>399</b>	<b>1,567</b>

## Dashboards:

- Continue to an effective tool for information distribution and transparency.
- Allow users to leverage and dissect many data sources to aid in planning.
- Upcoming: Solicit and integrate user feedback to continuously improve data dashboard usefulness.

# RCCD Dashboards: Data Democratization and Visualization for Decision-making and Planning

*end of slide deck*