

## California State Polytechnic University, Pomona

 Space Analytics UpdatePreliminary Utilization Review - President Session


25 June 2018

## AGENDA

- Space Assessment Process
- Existing Space Distribution
- Instructional Spaces

Scheduled Use
Preliminary Utilization
Utilization + Capacity Summary
Capacity Outcomes
Pedagogy + Planning

- Next Steps


## Space Assessment Process

- Data collection + field verification

Facilities, enrollment, course schedule

- Existing space distribution

By space use type

- Classroom + class laboratory utilization Space use, stations, scheduling
- Summary of Space Distribution and Utilization Assessment



## Next:

- Stakeholder sessions

President, VPs, Deans, Directors

- Classroom demand

Translate contact hours to model room count

- Space assessment + needs prioritization

Baseline year + future scenarios

- Findings + outcomes

Presentation of prioritization and critical needs

## Existing Space Distribution

## Non-Residential Net Assignable Square Feet

| Lecture | 134,599 |
| ---: | :---: |
| Laboratory | 239,257 |
| Other Instructional Space | 200,886 |
| Ofitices | 375,582 |
| Library | 215,984 |
| Other Non-Ofice | 172,537 |
| Special Instruct Support Space | 130,723 |
| Miscellaneous Space | 150,466 |
| TOTAL NASF | $\mathbf{1 , 6 2 0 , 0 3 4}$ |
|  | 21,872 Student FTE |

Space per Student FTE $=74$ NASF

## INSTRUCTIONAL SPACES

Lecture Rooms
Teaching Laboratories

## FTE Capacity v. Actual Total FTEs Taught

| College Year Annualized Full-Time Equivalent Students (FTES) |  |  |  |  | 6/20/2018 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| California State Polytechnic University, Pomona |  |  |  |  |  |
|  | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 |
| 1) CSU FTES Capacity for Campus | * | * | 17,993.00 | 18,292.00 | 18,292.00 |
| 2) CSU Resident FTES Target | 17,356.00 | 17,756.00 | 18,294.00 | 18,586.00 | 18,714.00 |
| 3) Campus total FTES Goal | 18,244.00 | 18,769.00 | 19,794.00 | 20,870.00 | 21,443.30 |
| 4) Actual total FTES Taught | 18,825.00 | 19,897.00 | 19,730.00 | 21,376.90 | 21,872.20 |
|  | Percent of Capacity |  | 110\% | 117\% | 120\% |



## Scheduled Use Lecture Rooms by Day + Time Fall 2017

(Darker colors indicate a large percentage of rooms are scheduled.)
( $D \wedge \square$

## SCHEDULED

 LECTURE ROOMS ONLY| 8:00 AM | 53\% 83 Rooms | 61\% <br> 96 Rooms | $51 \%$ <br> 81 Rooms | $\begin{aligned} & 59 \% \\ & 94 \text { Rooms } \end{aligned}$ | 42\% <br> 67 Rooms | $\begin{gathered} 38 \% \\ 60 \text { Rooms } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9:15 AM | 73\% 115 Rooms | 66\% 105 Rooms | 72\% <br> 113 Rooms | $66 \%$ 104 Rooms | $59 \%$ 94 Rooms | $\begin{gathered} 48 \% \\ 76 \text { Rooms } \end{gathered}$ |
| 10:00 AM | 73\% 115 Rooms | $92 \%$ <br> 145 Rooms | 72\% <br> 113 Rooms | 91\% <br> 144 Rooms | 59\% 93 Rooms | $55 \%$ 87 Rooms |
| 10:30 AM | 79\% 125 Rooms | 92\% <br> 146 Rooms | $\begin{gathered} 77 \% \\ 121 \text { Rooms } \end{gathered}$ | 92\% 145 Rooms | $\begin{aligned} & 63 \% \\ & 99 \text { Rooms } \end{aligned}$ | $\begin{gathered} 58 \% \\ 91 \text { Rooms } \end{gathered}$ |
| 11:45 AM | 78\% <br> 124 Rooms | 91\% <br> 143 Rooms | 77\% <br> 122 Rooms | 91\% <br> 143 Rooms | $61 \%$ <br> 96 Rooms | $\begin{aligned} & 57 \% \\ & 90 \text { Rooms } \end{aligned}$ |
| 1:00 PM | $48 \%$ <br> 76 Rooms | 98\% 155 Rooms | $53 \%$ <br> 83 Rooms | 96\% 152 Rooms | $28 \%$ <br> 45 Rooms | $46 \%$ <br> 73 Rooms |
| 2:00 PM | $92 \%$ <br> 146 Rooms | 97\% 154 Rooms | 91\% <br> 143 Rooms | 95\% 150 Rooms | $25 \%$ <br> 40 Rooms | $\begin{gathered} 58 \% \\ 91 \text { Rooms } \end{gathered}$ |
| 3:00 PM | 85\% 134 Rooms | 84\% <br> 133 Rooms | $\begin{gathered} 82 \% \\ 130 \text { Rooms } \end{gathered}$ | 84\% <br> 132 Rooms | $23 \%$ <br> 37 Rooms | $\begin{gathered} 51 \% \\ 81 \text { Rooms } \end{gathered}$ |
| 4:00 PM | 83\% <br> 131 Rooms | 85\% <br> 134 Rooms | $\begin{gathered} 82 \% \\ 130 \text { Rooms } \end{gathered}$ | 82\% 130 Rooms | 8\% <br> 12 Rooms | $\begin{gathered} 49 \% \\ 77 \text { Rooms } \end{gathered}$ |
| 5:00 PM | 78\% <br> 124 Rooms | $\begin{gathered} 57 \% \\ 90 \text { Rooms } \end{gathered}$ | 79\% 125 Rooms | 55\% 87 Rooms | $4 \%$ <br> 6 Rooms | $39 \%$ <br> 62 Rooms |
| 6:00 PM | $70 \%$ <br> 110 Rooms | 77\% 121 Rooms | 73\% <br> 115 Rooms | $75 \%$ 119 Rooms | $\begin{gathered} 1 \% \\ 2 \text { Rooms } \end{gathered}$ | $42 \%$ <br> 67 Rooms |
| 7:00 PM | 69\% 109 Rooms | $56 \%$ <br> 88 Rooms | 73\% <br> 116 Rooms | $56 \%$ <br> 88 Rooms | $\begin{gathered} 1 \% \\ 2 \text { Rooms } \end{gathered}$ | $37 \%$ <br> 58 Rooms |
| 8:00 PM | $\begin{gathered} 26 \% \\ 41 \text { Rooms } \end{gathered}$ | 42\% 66 Rooms | $27 \%$ <br> 42 Rooms | $42 \%$ <br> 67 Rooms | $\begin{gathered} 1 \% \\ 2 \text { Rooms } \end{gathered}$ | $\begin{gathered} 20 \% \\ 31 \text { Rooms } \end{gathered}$ |
|  | Monday | Tuesday | Wednesday | Thursday | Friday | *Average |

## Scheduled Use

## Lecture Rooms

by Day + Time
Fall 2017

## SCHEDULED LECTURE ROOMS ONLY

Percent of Classrooms In Use

Monday



Thursday


Friday

*Average


## Utilization Lecture Rooms by Building Fall 2017

## SCHEDULED ONLY

- CPP Fall 2017 data has no scheduled courses in 7 lecture rooms included in Facilities data
- We show 12 more rooms than APD791 PO-Utilization Report counts (800 seats)
- Utilization is close to internal APD791 PO-Utilization Report calculations
- $87 \%$ of Utilization Targets

| Building Name and ld |  | Room Characteristics |  |  |  | Average Utilization |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | TOTAL |  | AVERAGE |  | Course Enrollment | Weekly Room Hours | Percent of Seats Filled | Weekly Seat Hours |
|  |  | No. of Rooms | No. of Seats | NASF per Room | NASF per Seat |  |  |  |  |
| Administration | 001 | 7 | 316 | 791 | 19 | 36 | 47 | 82\% | 38.1 |
| Agriculture Classrooms | 002 | 5 | 249 | 760 | 15 | 35 | 31 | 71\% | 22.1 |
| Art/Engineering Annex | 013 | 1 | 65 | 1,639 | 25 | 51 | 28 | 78\% | 21.8 |
| Bronco Bookstore | 066 | 4 | 269 | 1,035 | 16 | 46 | 36 | 70\% | 27.5 |
| Business Administration | 006 | 9 | 428 | 778 | 17 | 35 | 46 | 73\% | 32.8 |
| Class, Lab, Administration Building | 098 | 7 | 327 | 761 | 16 | 37 | 34 | 79\% | 26.3 |
| College of Business Administration B | 162 | 2 | 320 | 2,763 | 17 | 110 | 43 | 73\% | 30.6 |
| College of Business Administration C | 163 | 12 | 733 | 1,177 | 20 | 38 | 40 | 64\% | 24.8 |
| Collins College of Hospitality + Management | 079 | 3 | 171 | 1,186 | 20 | 47 | 30 | 84\% | 27.1 |
| Drama/heater | 025 | 1 | 30 | 425 | 14 | 28 | 25 | 93\% | 23.3 |
| Engineering | 009 | 39 | 1,627 | 651 | 16 | 32 | 40 | 79\% | 31.8 |
| Engineering Labs | 017 | 4 | 168 | 814 | 19 | 36 | 34 | 86\% | 30.5 |
| Environmental Design | 007 | 3 | 150 | 773 | 15 | 29 | 30 | 59\% | 18.0 |
| Kellogg Gym | 043 | 1 | 58 | 842 | 15 | 27 | 31 | 46\% | 14.4 |
| Letters, Arts and Social Science | 005 | 20 | 838 | 653 | 16 | 32 | 41 | 78\% | 32.6 |
| Library | 015 | 7 | 460 | 1,137 | 17 | 56 | 38 | 85\% | 34.6 |
| Marriott Learning Center | 080 | 2 | 96 | 1,235 | 26 | 34 | 24 | 68\% | 15.8 |
| Music Department | 024 | 11 | 600 | 880 | 17 | 36 | 38 | 69\% | 25.5 |
| Science | 008 | 13 | 494 | 573 | 15 | 32 | 46 | 85\% | 38.6 |
| Science Laboratory | 003 | 7 | 434 | 950 | 16 | 48 | 46 | 76\% | 38.8 |
| Totals / Averages: |  | 158 | 7,833 | 824 | 17 | 37 | 40 | 77\% | 30.5 |

CSU Utilization Targets: Lecture | 53 | $66 \%$ | 34.98 |
| :--- | :--- | :--- |

# Preliminary Utilization by Teaching Lab Type Fall 2017 <br> <br> SCHEDULED TEACHING LABS ONLY 

 <br> <br> SCHEDULED TEACHING LABS ONLY}


- We show 3 fewer Labs than APD791 PO-Utilization Report (1 seat less)
- Utilization is close to internal APD791 PO-Utilization Report calculations
- $122 \%$ of LD Utilization Targets
- 135\% of UD Utilization Targets


## Lecture Utilization + Capacity Summary

The major difference between ASG's calculations and CSU's is the Weekly Room/Contact Hours. ASG's Weekly Room Hours are based on real time in the space and CSU's Weekly Contact Hours are based on an entered hour.

| Fall Term 2017 <br> Lecture | Room Count | Total <br> Stations | NASF per Station | Weekly <br> Room <br> Hours | \% Station Occupancy | Weekly Station Hours |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASG Lecture - All Rooms | 165 | 8,006 | 17 | 38.0 | 73.0\% | 29.8 |
| ASG Lecture - Only Scheduled | 158 | 7,833 | 17 | 40.0 | 77.0\% | 30.5 |
| CSU Utilization Targets | n/a | n/a |  | 53.0 | 66.0\% | 35.0 |
| APD791 L.A.O. Report | 153 | 7,206 | n/a | 42.5 | 76.0\% | 32.3 |

Percent of CSU Utilization Target


## Lecture Utilization + Capacity Summary

The major difference between ASG's calculations and CSU's is the Weekly Room/Contact Hours. ASG's Weekly Room Hours are based on real time in the space and CSU's Weekly Contact Hours are based on an entered hour.

| Fall Term 2017 Lecture | Room Count | Total <br> Stations | NASF per Station | Weekly Room Hours | \% Station Occupancy | Weekly Station Hours |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASG Lecture - All Rooms | 165 | 8,006 | 17 | 38.0 | 73.0\% | 29.8 |
| ASG Lecture - Only Scheduled | 158 | 7,833 | 17 | 40.0 | 77.0\% | 30.5 |
| CSU Utilization Targets | n/a | n/a |  | 53.0 | 66.0\% | 35.0 |
| APD791 L.A.O. Report | 153 | 7,206 | n/a | 42.5 | 76.0\% | 32.3 |

Percent of CSU Utilization Target


| Fall Term 2017 <br> Lecture FTE Capacity | Total <br> Stations | FTE <br> Capacity | FTE Conversion Factor |
| :---: | :---: | :---: | :---: |
| FP_CAP_FAC_PT Permanent | 7,206 | 16,790 | 2.33 |
| FP_CAP_FAC_PT Temporary | 766 | 1,785 | 2.33 |
| CPP FTE Capacity | 7,972 | 18,575 |  |
| ASG from Facilities File | 8,006 | 18,654 | 2.33 |
| Difference | 34 | 79 |  |

FTE Capacity $=18,575$
Lecture FTEs* $=20,742$ or 112\%) of Capacity
*from APD53 PGM APD76 Course Section Report for Fall 2017

## Laboratory Utilization + Capacity Summary

| Fall Term 2017 <br> Laboratory | Room Count | Total <br> Stations | NASF per Station | Weekly Room Hours | \% Station Occupancy | Weekly <br> Station <br> Hours |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASG Laboratory - All Rooms | 178 | 3,496 | 62 | 19.0 | 101.0\% | 22.6 |
| ASG Laboratory - Only Scheduled | 153 | 3,109 | 61 | 23.0 | 117.0\% | 25.4 |
| ASG Laboratory - Only Scheduled Lower Division | 50 | 1,059 | 56 | 26.0 | 113.0\% | 28.6 |
| ASG Laboratory - Only Scheduled Upper Division | 103 | 2,050 | 63 | 21.0 | 119.0\% | 23.8 |
| CSU Lower Division Utilization Targets | n/a | n/a |  | 27.5 | 85.0\% | 23.4 |
| CSU Upper Division Utilization Targets | n/a | n/a |  | 22.0 | 80.0\% | 17.6 |
| APD791 L.A.O. Report | 181 | 3,497 | n/a | 23.5 | 108.5\% | 25.5 |

Percent of CSU Utilization Target


## Laboratory Utilization + Capacity Summary

| Fall Term 2017 Laboratory | Room Count | Total <br> Stations | NASF per Station | Weekly Room Hours | \% Station Occupancy | Weekly Station Hours |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ASG Laboratory - All Rooms | 178 | 3,496 | 62 | 19.0 | 101.0\% | 22.6 |
| ASG Laboratory - Only Scheduled | 153 | 3,109 | 61 | 23.0 | 117.0\% | 25.4 |
| ASG Laboratory - Only Scheduled Lower Division | 50 | 1,059 | 56 | 26.0 | 113.0\% | 28.6 |
| ASG Laboratory - Only Scheduled Upper Division | 103 | 2,050 | 63 | 21.0 | 119.0\% | 23.8 |
| CSU Lower Division Utilization Targets | n/a | n/a |  | 27.5 | 85.0\% | 23.4 |
| CSU Upper Division Utilization Targets | n/a | n/a |  | 22.0 | 80.0\% | 17.6 |
| APD791 L.A.O. Report | 181 | 3,497 | n/a | 23.5 | 108.5\% | 25.5 |

Percent of CSU Utilization Target

| Fall Term 2017 <br> Laboratory FTE Capacity | Total Stations | FTE <br> Capacity | FTE <br> Conversion Factor |
| :---: | :---: | :---: | :---: |
| FP_CAP_FAC_PT Lower Division | 1,132 | 589 | 0.52 |
| FP_CAP_FAC_PT Upper Division | 2,365 | 922 | 0.39 |
| CPP FTE Capacity | 3,497 | 1,511 |  |
| ASG from Facilities File Lower Division | 1,132 | 589 | 0.52 |
| ASG from Facilities File Upper Division | 2,364 | 922 | 0.39 |
| ASG CPP FTE Capacity | 3,496 | 1,511 |  |
| Difference | (1) | (0) |  |

FTE Capacity = 1,511
Lab FTEs* $=1,253$ or 83\% of Capacity
*from APD53 PGM APD76 Course Section Report for Fall 2017

## Why the disconnect between percent of capacity and the percent of utilization targets?

- Only 77\% of the Lecture/Seminar FTEs are being taught in Lecture facilities
- Nine percent of the Lecture/Seminar FTEs are being taught in Lab facilities
- The nine percent represents $145 \%$ of the existing FTEs being taught in Lab facilities

Analysis of Courses Held in Lecture Facilities

|  | Weekly |  | Weekly |  |
| :---: | :---: | :---: | :---: | :---: |
|  | No. of Sections | Room Hours | Contact Hours | Student FTEs |
| Lecture/Seminar Courses scheduled in Lecture Facilities | 1,700 | 6,110 | 6,191.00 | 15,988.37 |
| Laboratory Courses scheduled in Lecture Facilities | 28 | 85 | 92.00 | 52.92 |
| Activity Courses scheduled in Lecture Facilities | 28 | 58 | 57.00 | 43.33 |
| Independent Study courses scheduled in Lecture Facilities | 13 | 36 | 39.00 | 63.26 |
| TOTAL | 1,769 | 6,289 | 6,379.00 | 16,147.88 |

Analysis of Courses held in Laboratory Facilities

|  | Weekly |  | Weekly |  |
| :---: | :---: | :---: | :---: | :---: |
|  | No. of Sections | Room <br> Hours | Contact Hours | Student FTEs |
| Lecture/Seminar Courses scheduled in Lab Facilities | 310 | 908 | 919.50 | 1,816.73 |
| Laboratory Courses scheduled in Teaching Lab Facilities | 590 | 2,184 | 2,186.00 | 1,021.94 |
| Activity Courses scheduled in Teaching Lab Facilities | 99 | 408 | 408.00 | 284.32 |
| Independent Study courses scheduled in Teaching Lab Facilities | 1 | 1 | 2.00 | 0.40 |
| TOTAL | 1,000 | 3,501 | 3,515.50 | 3,123.39 |

## Instructional Capacity Outcome



## Instructional Capacity Outcome



## Instructional Capacity Outcome



## FTE Capacity v. Actual Total FTEs Taught



| 1) CSU FTES Capacity for Campus is a calculation used in the analysis of new space needs |
| :--- |
| ( If necessary, older figures could be researched. |
| 2) CSU Resident FTES Target is budget teaching expectation for California resident students |
| 3) Campus total FTES Goal is planned teaching expectation for all students, resident plus non-resident |



## Actual Total FTEs Taught



## Summary of Data Themes

- FTE generation is against contact hours that don't always equal to actual scheduled time or weekly room hours
- FTEs generated by Course Component do not match the physical facility in which the course is taught
- There are spaces classified as instructional that have no scheduled use where the seat counts are contributing to capacity and reducing reported utilization
- Some physical spaces are not classified per current use because it's an arduous process to get acceptance from the system


## www.thesamiapp.com

SITE: www.thesamiapp.com
CPP ID: Planning Team
CPP PASSWORD: greengoldCPP17

Welcome to SAMi, California State
Polytechnic University Pomona
Planning Team
Let us help you see and understand the space usage at your campus.
SAMi is an interactive data visualization tool that displays the outcomes of your institution's space needs assessment in an interactive manner. There are several reports contained within SAMi. Most of these reports have been presented to your institution in one form or another. This is your chance to view, absorb, or print the outcomes at your leisure. You may also see some details that a 60 minute timeframe doesn't allow in a presentation or workshop format.
Use your mouse to scroll over the various squares, bubbles and bars to see the details of what is being displayed. This is not a scenario planning tool but a strategy to get you involved in reviewing the outcomes of the needs assessment. There are information buttons along the way that will explain what and how to interpret the results and graphics.

Existing Space Distribution


Existing Space Distributed by Space Category
Category view what each space category encompasses.


Existing Space Distributed by Primary Unit
Select a primary unit to view its treemap and all the buildings within.


Existing Space Distributed by Building and Floor
Select a building to view its treemap. Compare building levels by space category and secondary unit.

## CLASSROOM SIZE + LEARNING MODALITIES

Improving Instructional Space

## ASF/Student Station for Classroom Learning Modalities

## 15 = CSU Standard for Lecture w/tablet-arm chairs

20 = CSU Standard for Lecture w/tables + chairs


Faculty-Directed

## Student-Centered

## Case-Based

## Problem-Based

Collaborative
Peer Tutoring
Didactic
Heuristic



## ASF/Student Station for Classroom Learning Modalities

## 15 = CSU Standard for Lecture w/tablet-arm chairs

20 = CSU Standard for Lecture w/tables + chairs


## CHALLENGES TO LEARNING ENVIRONMENTS

## CHALLENGES:



## CHALLENGES:



EMERGING TECHNOLOGY

## PRINCIPLES OF LEARNING ENVIRONMENTS

## PEDAGOGICAL APPROACHES



The Learning Pyramid, National Training Laboratories
"Neuroscientists confirm students today are digital natives so we must reframe/reinvent the educational system to teach students new skills which will give them the

## capacity to innovate.

To do this, our learning environments must facilitate skills such as critical thinking, problem solving, teamwork and imagination so that our students can excel in the 21st century."

Dr. Nancy Grasmick

## FACTORS THAT INFLUENCE THE LEARNING ENVIRONMENT



## LEARNING ENVIRONMENTS FOR STUDENT SUCCESS

## STU



## LEARNING ENVIRONMENTS FOR STUDENT SUCCESS

## STU



## LEARNING ENVIRONMENTS FOR STUDENT SUCCESS



## COLLABORATIVE LEARNING

- Active Learning
- Team/Collaborative Learning
- PBL (Problem Based Learning)
- SCALE UP
(Student Centered Active Learning Environments with Upside Down Pedagogies)


## cOLLABORATIVE PEDAGOGICAL MODULES



Abstract
Pedagogical
Modules

Collaborative
Collaborative
Groups

(1) (1)
(1) (1)


## ONE SPACE ACCOMODATES VARYING APPROACHES

 850 NASF / 24 STU = 35 SF/STU

## LEARNING ENVIRONMENTS FORMAT DRIVES ASFISTU

## Learning Environment Space Attributes <br> Quantitative / Measurable

- Universal or Inclusive Design
- Accessibility
- Flexible / Mobile Fumiture
- Proportion \& Scale
- Sight Lines
- Acoustics
- Lighting
- Thermal Comfort
- Materials \& Finishes
- Durability \& Maintainability
- Technology Implementation



TRADITIONAL LECTURE HALL
FIXED SEAT, TABLET ARM $=\mathbf{1 0 - 1 4}$ SF/SEAT

## -

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LECTURE HALL, FORWARD FACING + COLLABORATIVE TABLES IN ROWS + MOVABLE CHAIRS = $\mathbf{2 4}$ SF/SEAT


LECTURE HALL, FORWARD FACING + COLLABORATIVE TABLES IN ROWS + MOVABLE CHAIRS = 24 SF/SEAT




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LEARNING LAB, MULTIPLE FRONTS
COLLABORATIVE TABLES + TECHNOLOGY = 25-30 SF/PERSON


LEARNING LAB, MULTIPLE FRONTS
COLLABORATIVE TABLES + TECHNOLOGY = 26-30 SF/PERSON


LEARNING STUDIO, MULTIPLE FRONTS
COLLABORATIVE TABLES + TECHNOLOGY = 30 SF/PERSON


$$
\begin{aligned}
& \frac{4845 \mathrm{ft}^{2}}{162 \mathrm{stu}} \\
& 30 \mathrm{ftz} / \mathrm{stu}
\end{aligned}
$$

## Q+A / DISCUSSION



## NEXT STEPS

- Fall 2018 Semester Utilization Analysis
- Classroom Demand Study

Academic Stakeholder Sessions

- Space Needs Assessment


