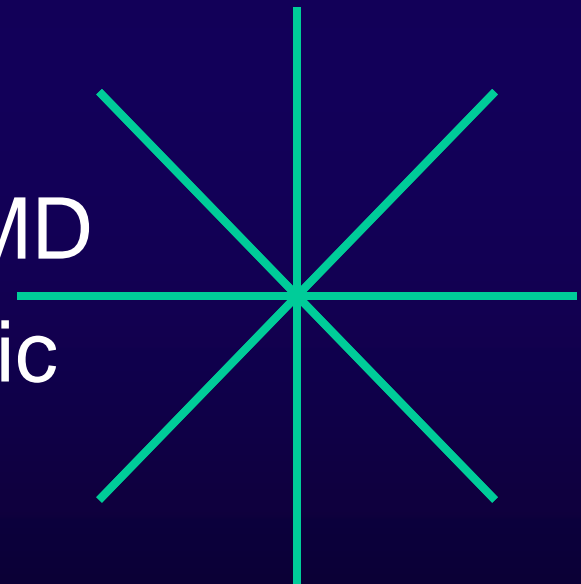
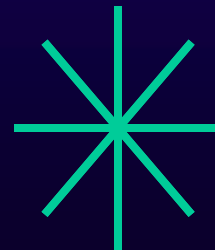
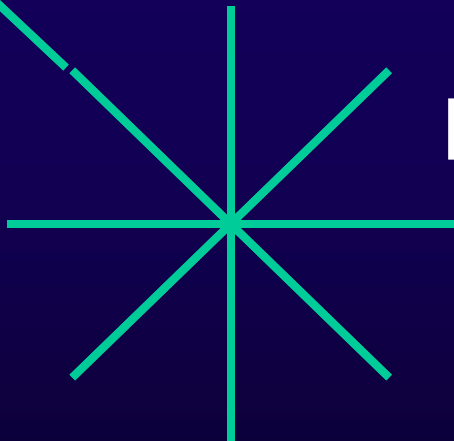
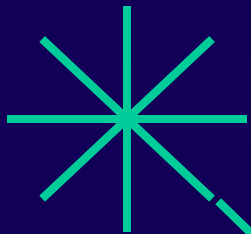


# Faculty Development in the form of Faculty Performance Radar

## Plots

Erik Stratman, MD  
Marshfield Clinic



# BACKGROUND

- Providing faculty with objective feedback summarizing individual teacher performance has value
  - Summarize contribution to a department's education mission
  - Benchmarking
  - Goal-setting
  - Faculty development topic selection to improve desired performance

# BACKGROUND

- Residency programs may not be providing this in a summative or multisource fashion.
- Teachers may only receive learner-assigned teacher ratings as the only feedback source.

# BACKGROUND

Comparative, de-identified data on peer teacher performance might influence teachers to execute desired teaching behaviors

Faculty Development is required by ACGME

*“The program must monitor and track faculty development”*

*(core V.C.2.b.)*

# DETERMINE DESIRED DATA

## ALREADY COLLECTED:

### From Resident Evaluations

- Evaluator Score
- Instructor Score
- Clinical Supervisor Score
- Professional Mentor Score
- Clinical Role Model Score

## **ALREADY COLLECTED:**

### **From Evaluation Software**

- Completion rate of assigned evaluations
  - Resident Evaluations
  - Program Evaluation

### **From Division of Education Database**

- Number of days supervising learners
- Number of didactics taught

## DESIRED BUT NOT YET COLLECTED

- Participation in Quality Improvement (Active Participant)
- Faculty Development Participation (Attendance)
- Direct Observational Evaluations Completed (Mini-CEX)
- Faculty Scholarly Activity\*



## Accreditation Data System

### Faculty Scholarly Activity

Faculty Member	<a href="#">Conference Presentations</a>	<a href="#">Other Presentations</a>	<a href="#">Chapters Textbooks</a>	<a href="#">Grant Leadership</a>	<a href="#">Leadership or Peer-Review Role</a>	<a href="#">Teaching Formal Courses</a>	
Erik Stratman							Action Required: "Add" or indicate "No Activity"
Alexandra Carley							Action Required: "Add" or indicate "No Activity"
Jonathan Cutlan							Action Required: "Add" or indicate "No Activity"
Ellen Gordon							Action Required: "Add" or indicate "No Activity"
Clayton Green							Action Required: "Add" or indicate "No Activity"
Seung-David Kim							Action Required: "Add" or indicate "No Activity"
Thomas McIntee							Action Required: "Add" or indicate "No Activity"
John Melski							Action Required: "Add" or indicate "No Activity"
Stella Patten							Action Required: "Add" or indicate "No Activity"



# Defining Faculty Scholarly Activity

There are 6 categories of scholarly activity recognized for this metric:

1. **Publications** (indexed by Pubmed)
2. **State, Regional, National, or International Presentations**
3. **Other unpublished research activity**  
(unpublished ongoing research, non-Pubmed publication)
4. **Textbooks / Chapters**
5. **Grants**
6. **Presentations** (institutional grand rounds, resident lectures or workshops)

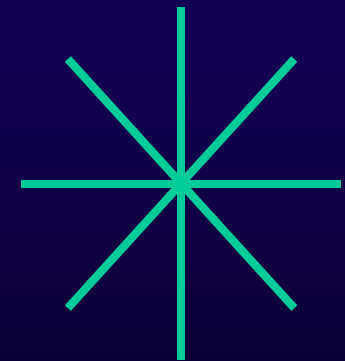
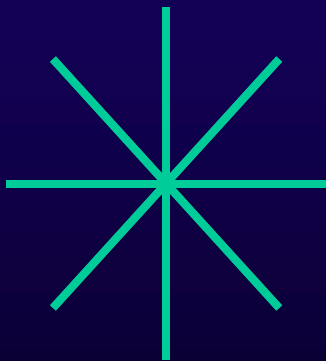
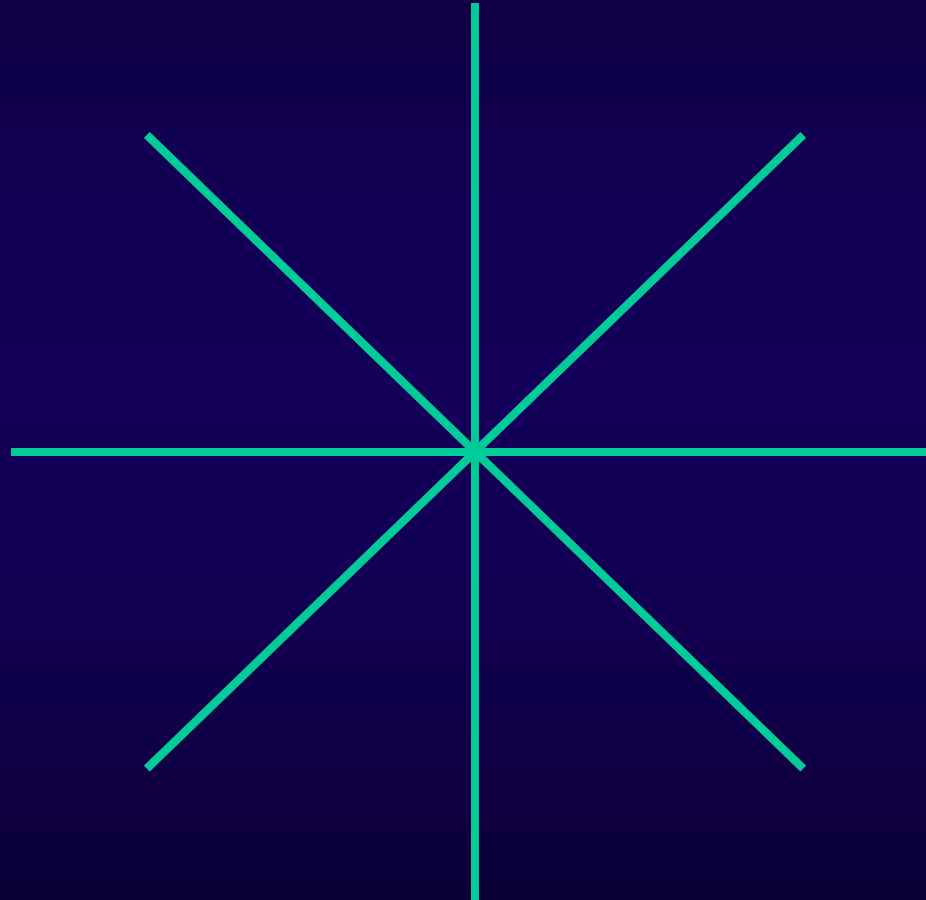
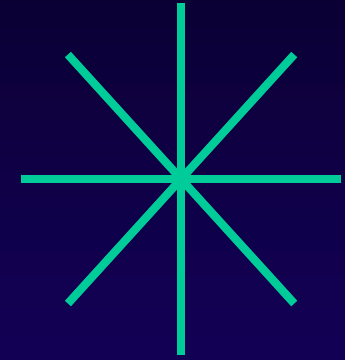
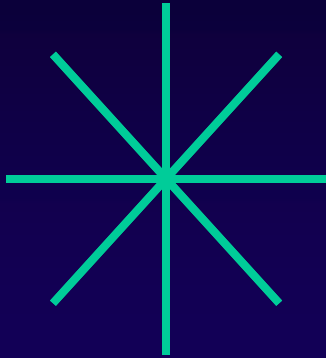
\*1 Point is assigned for any activity in each category.

There are a total of 6 possible scholarly activity points.

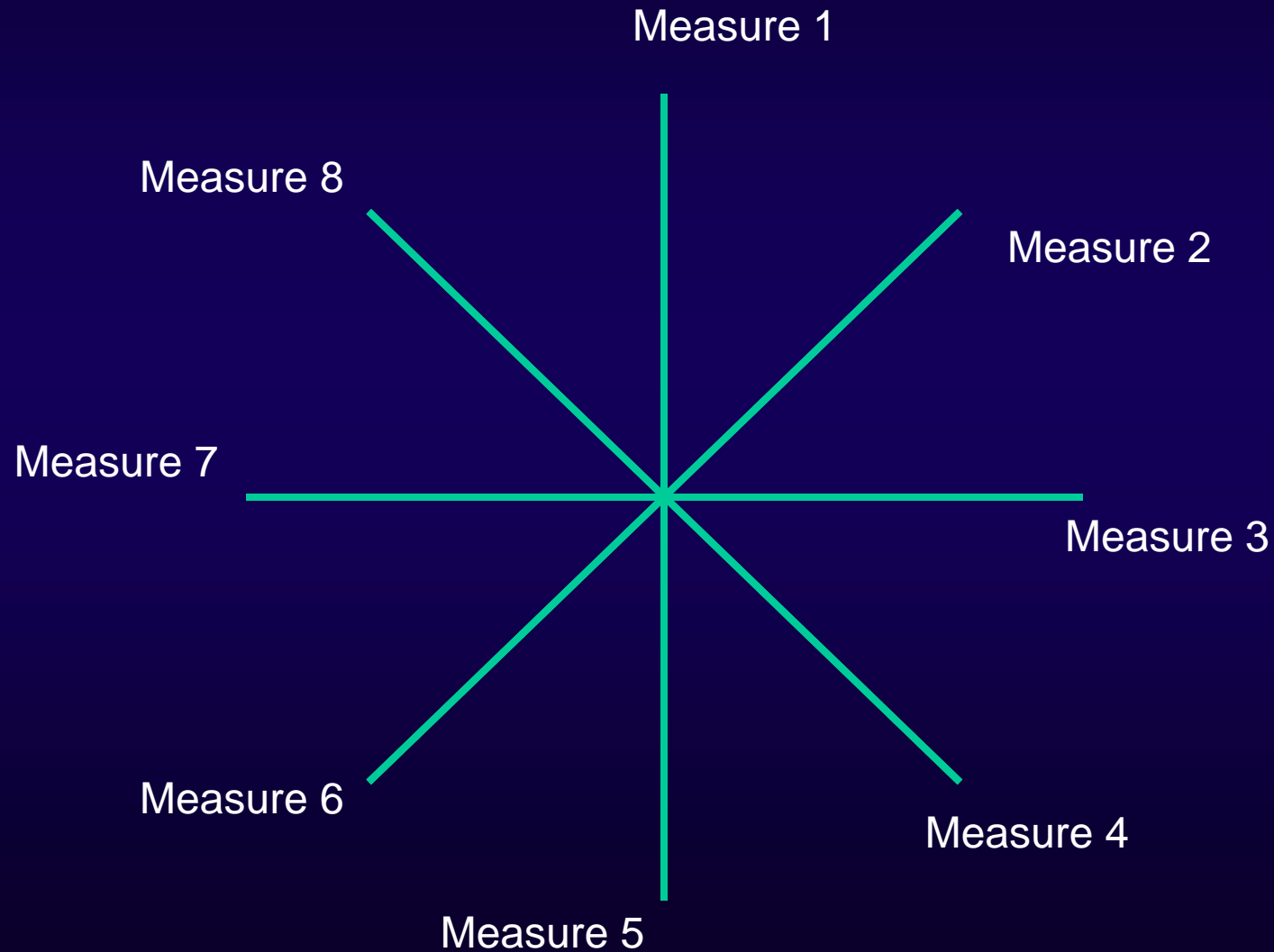
# Create Spreadsheet Used to Plot Radar Graphs

- Excel
- Radar Plots selected
- Formulas can be created to make scales of each spoke nearly equivalent
- Each spoke in our radar graph was converted in percentage units
- Calculate medians
- Assign minimally acceptable performance levels such that an underperforming faculty may identify easily when performance needs to improve

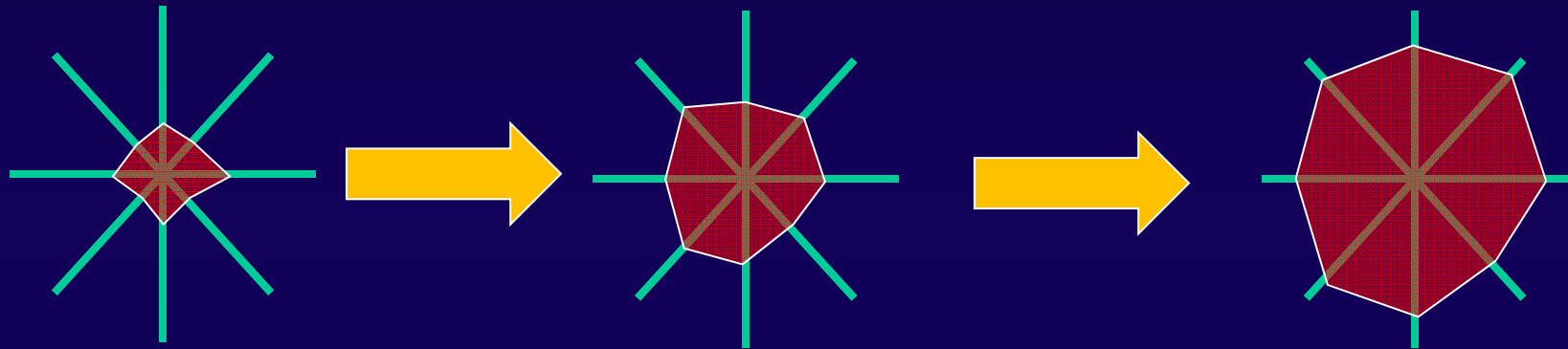
# Why Radar Plots?



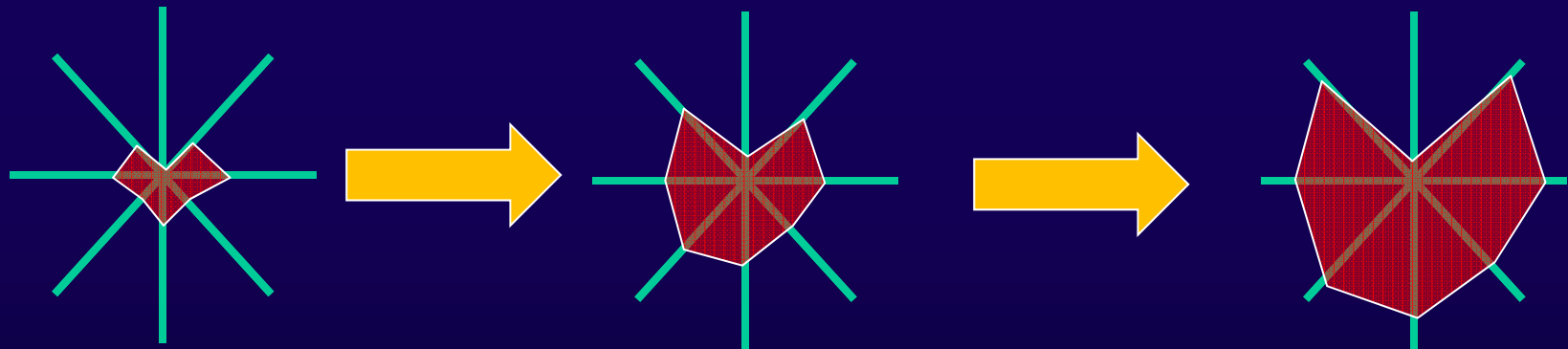
# Multiple performance measures in one visual



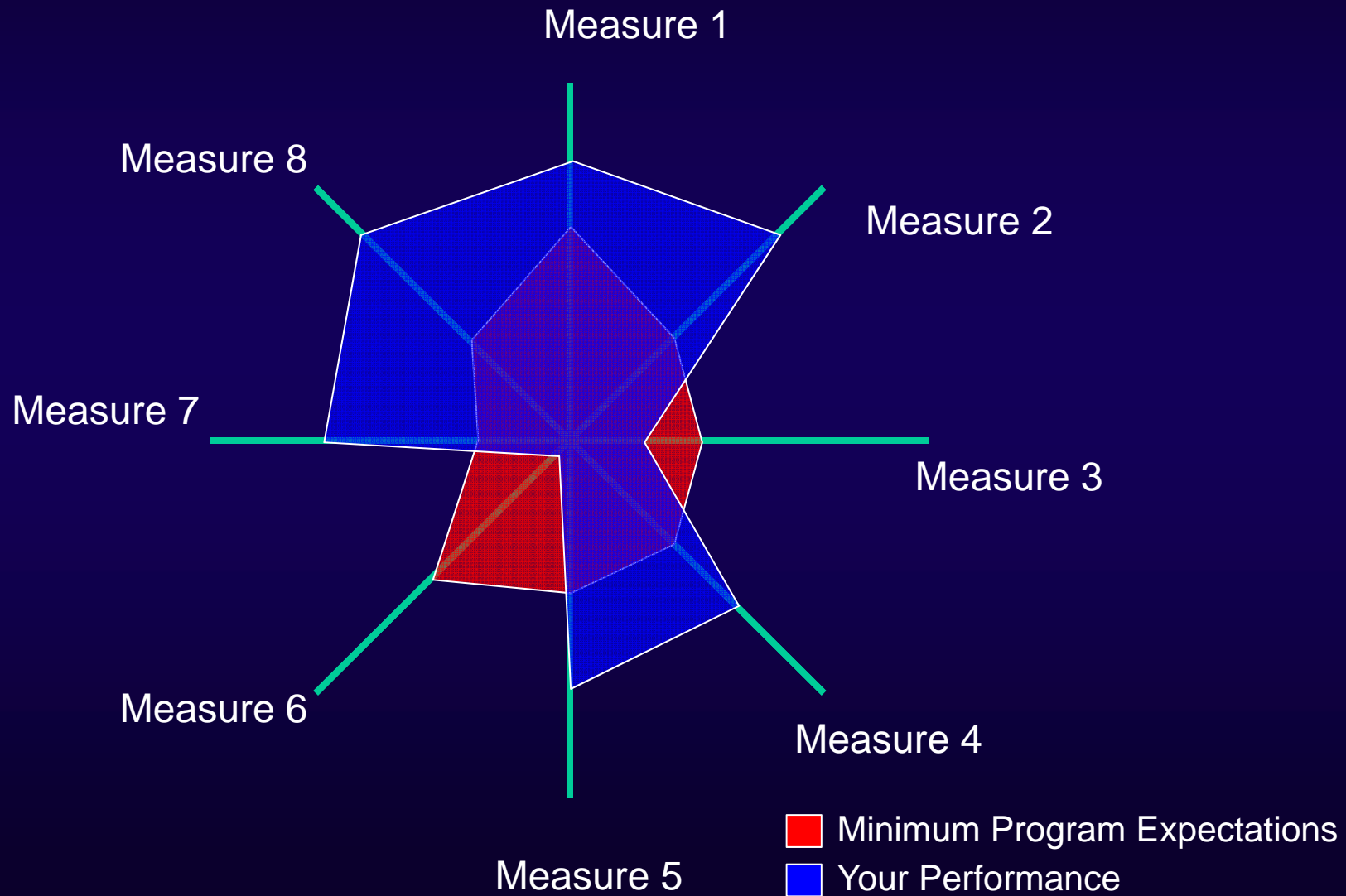
# Easy to Visualize Performance Growth Over Time



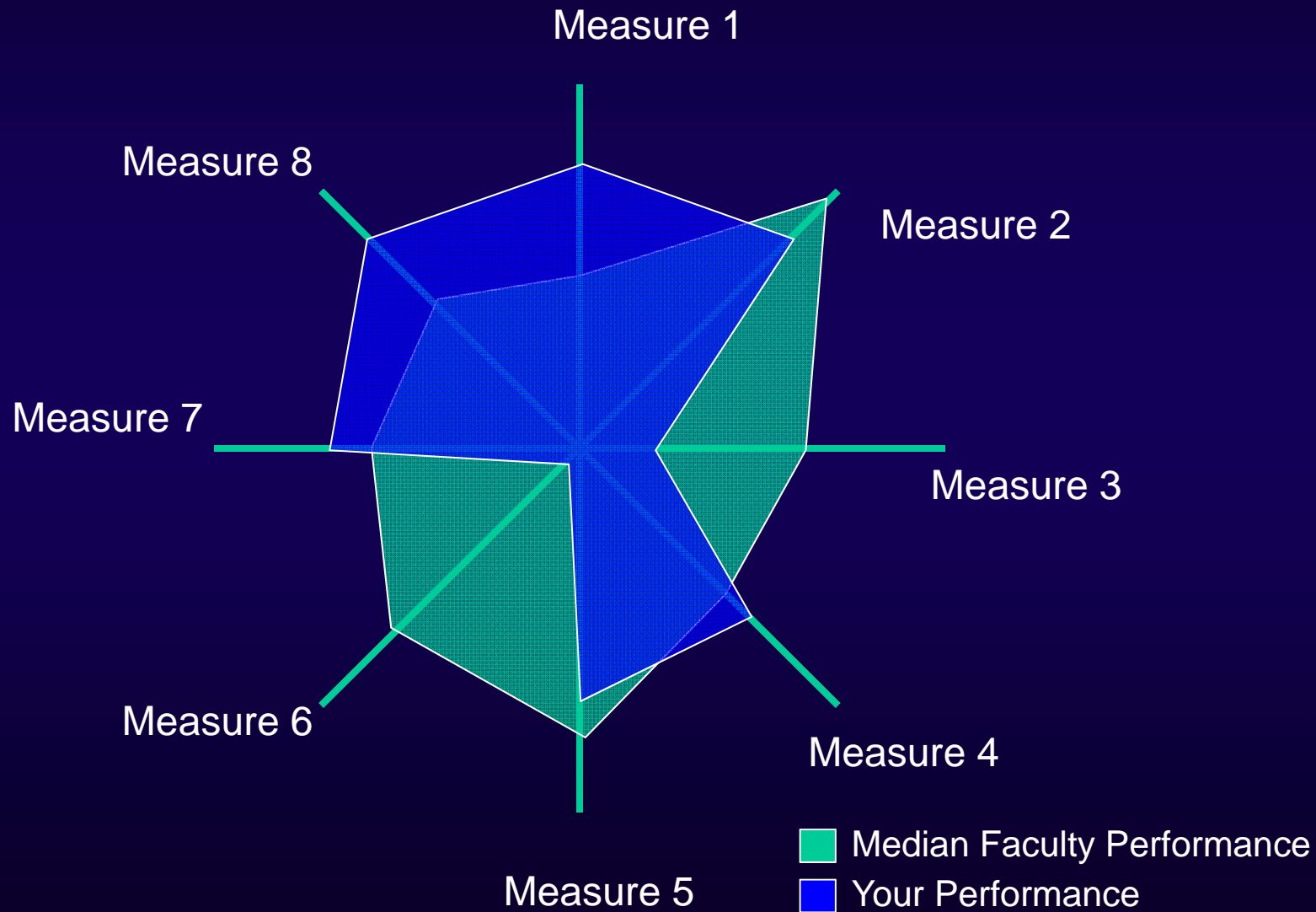
# COROLLARY: Easy to Visualize Performance Deficits / Absence of Improvement Over Time



# Ability to Highlight Program's Expectations Visually

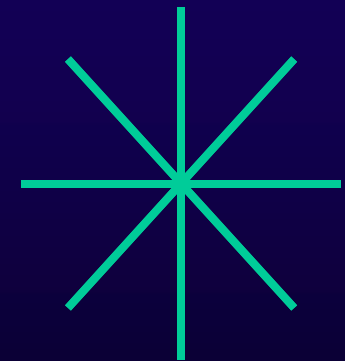
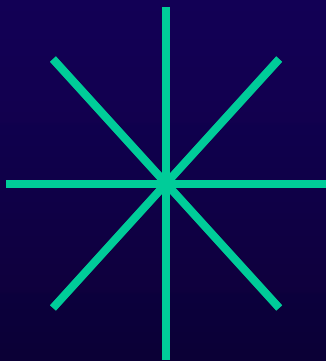
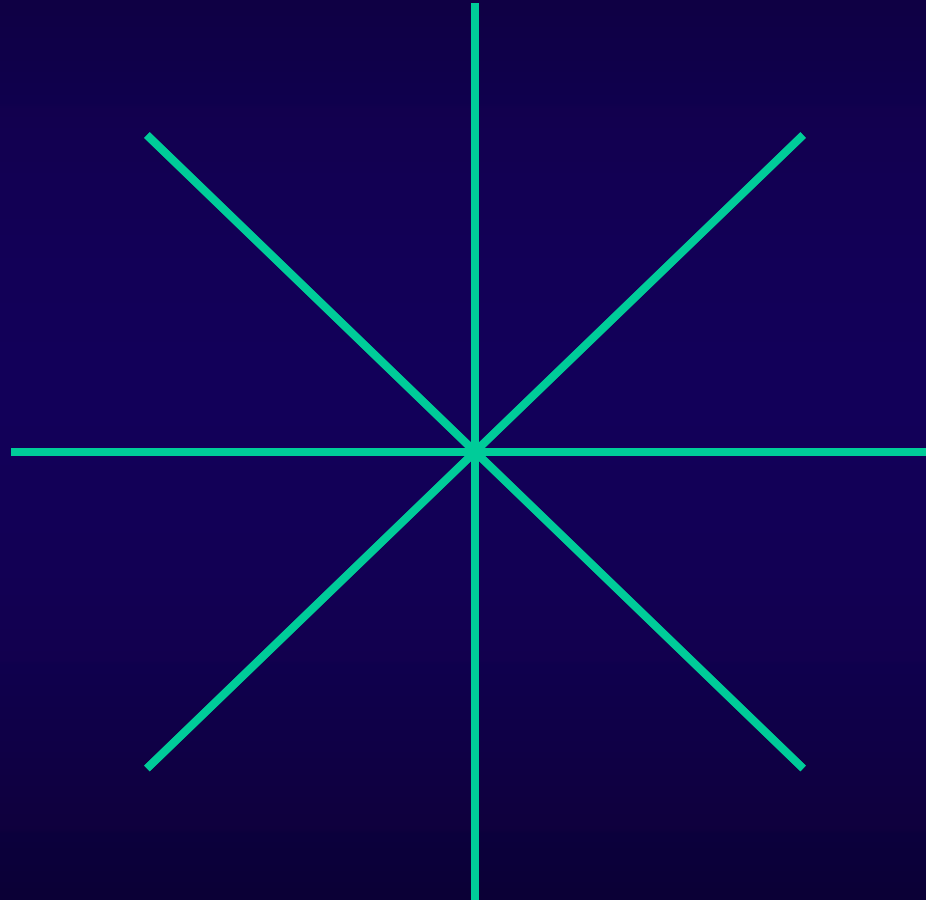
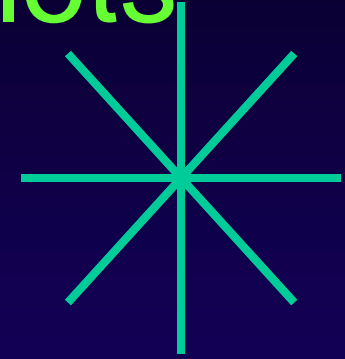
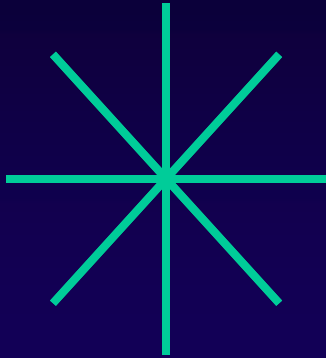


# Ability to Highlight Individual vs. Median Faculty Performance

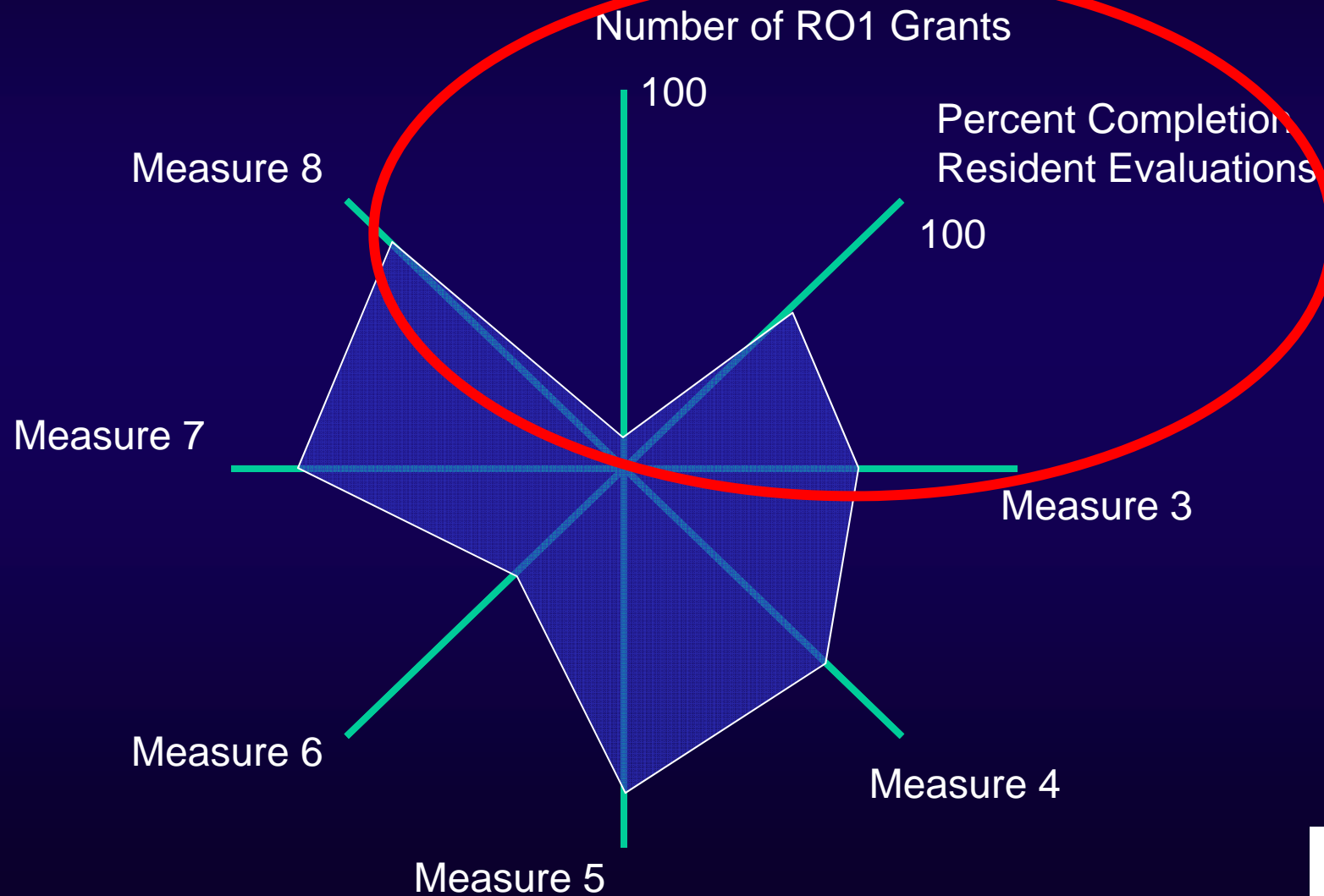




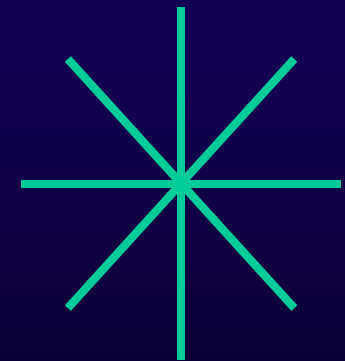
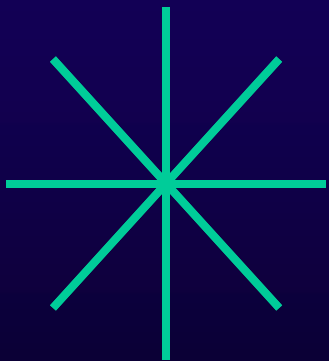
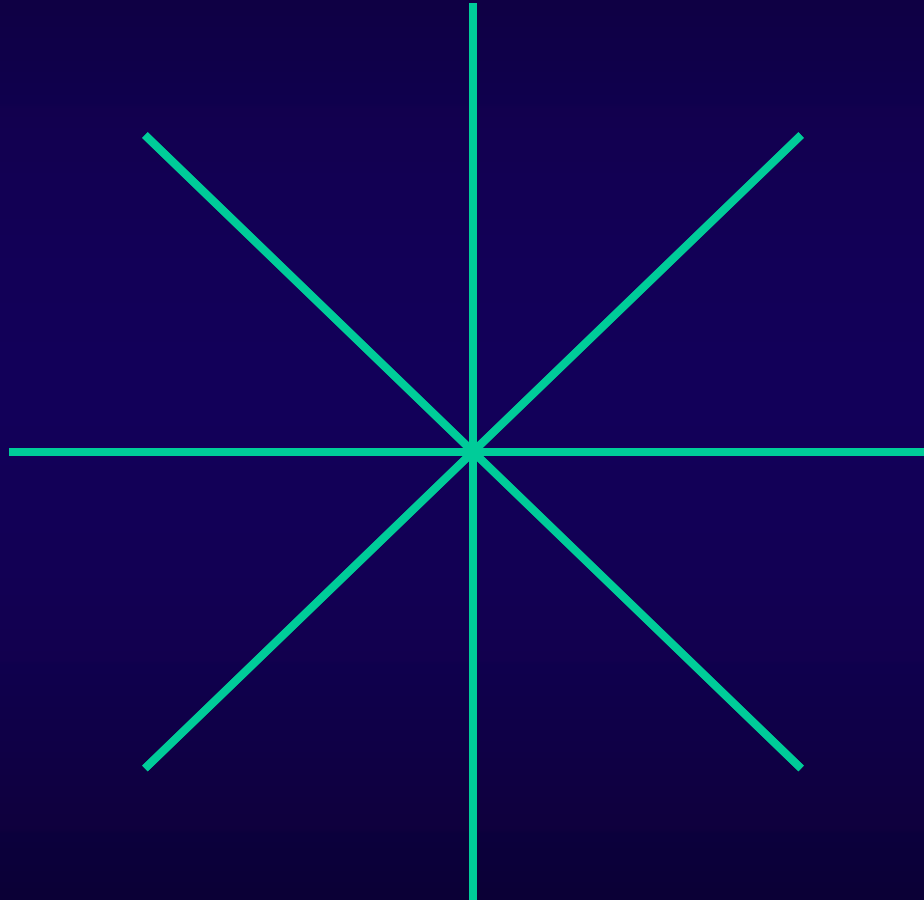
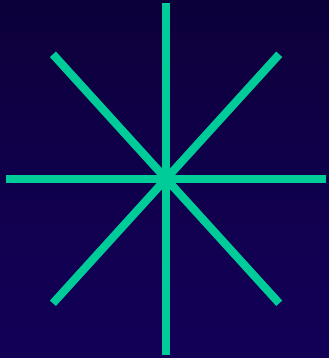
# Limitations to Radar Plots

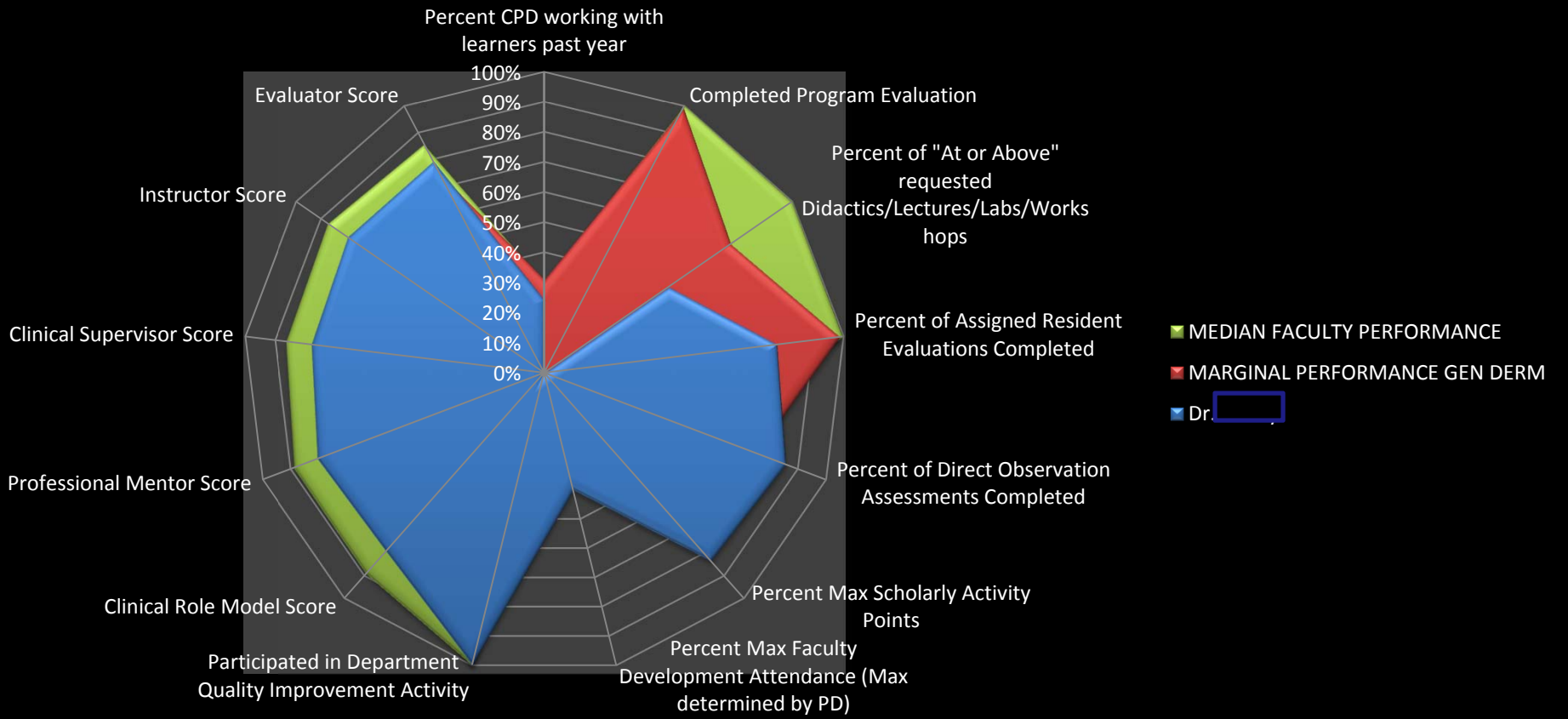


# Each “spoke” needs to be scaled appropriately for effect

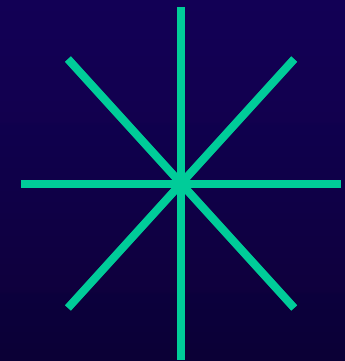
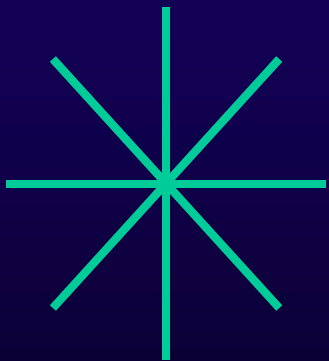
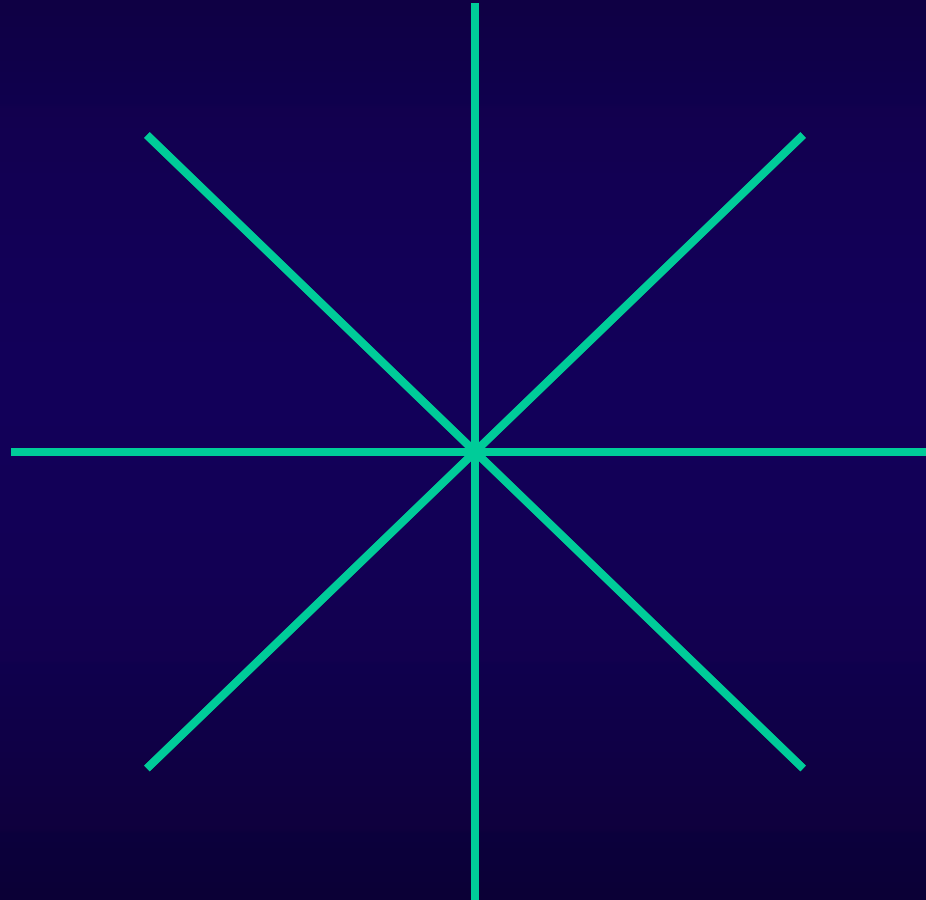
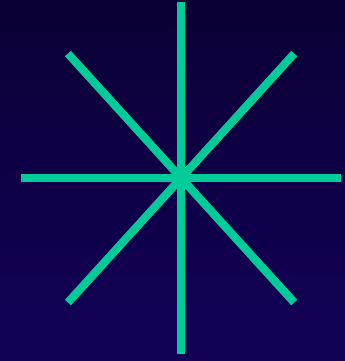
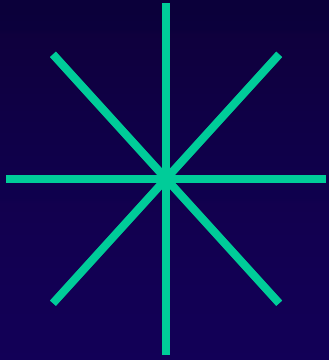


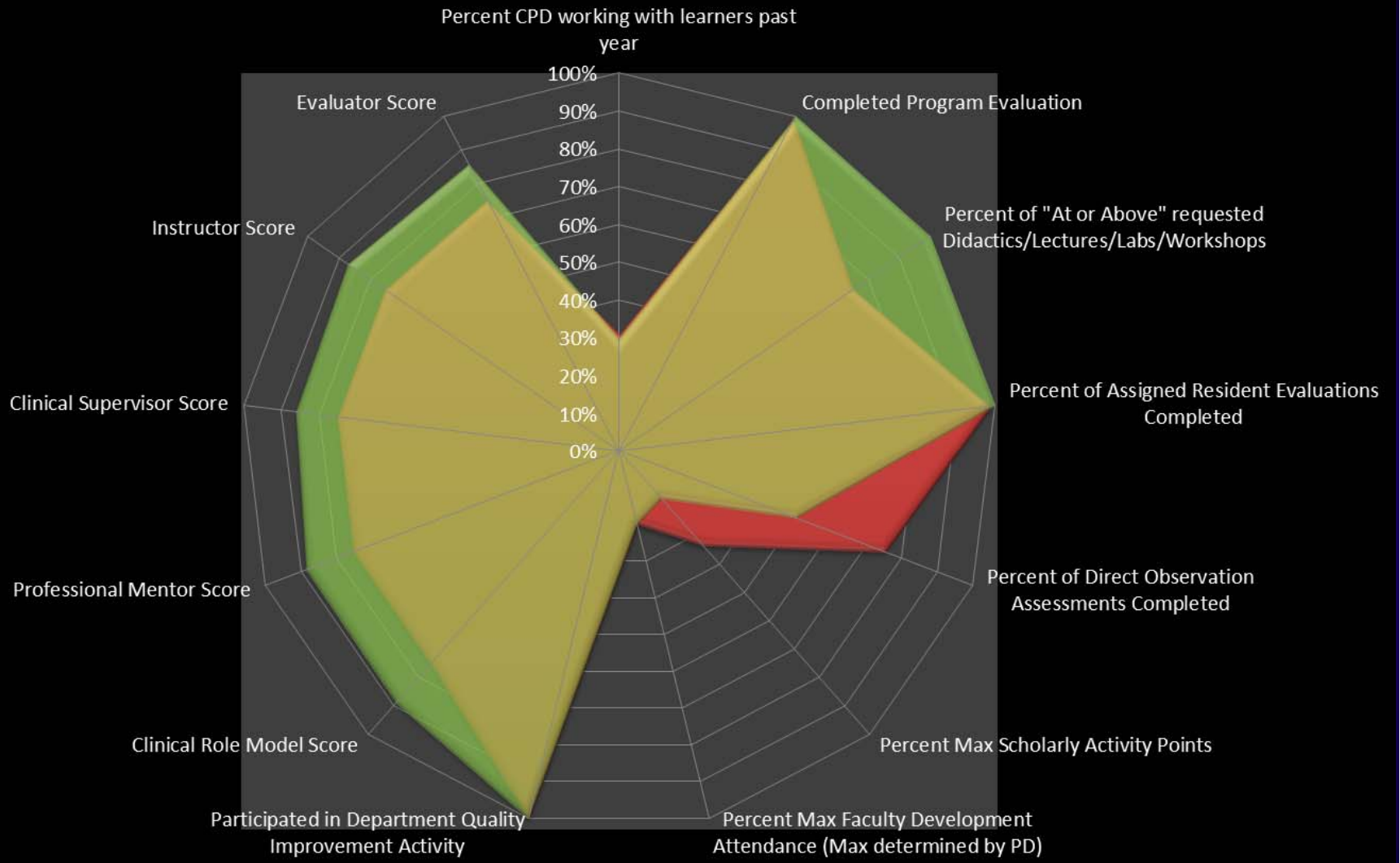
# What do our faculty receive?

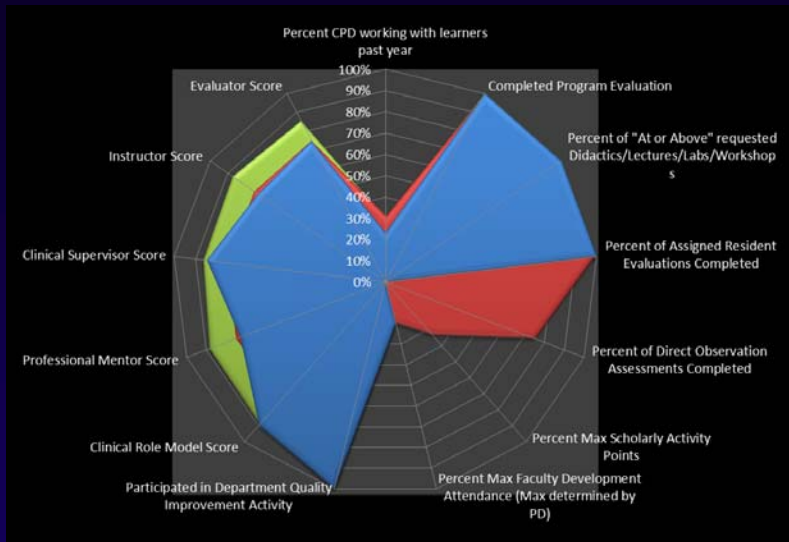




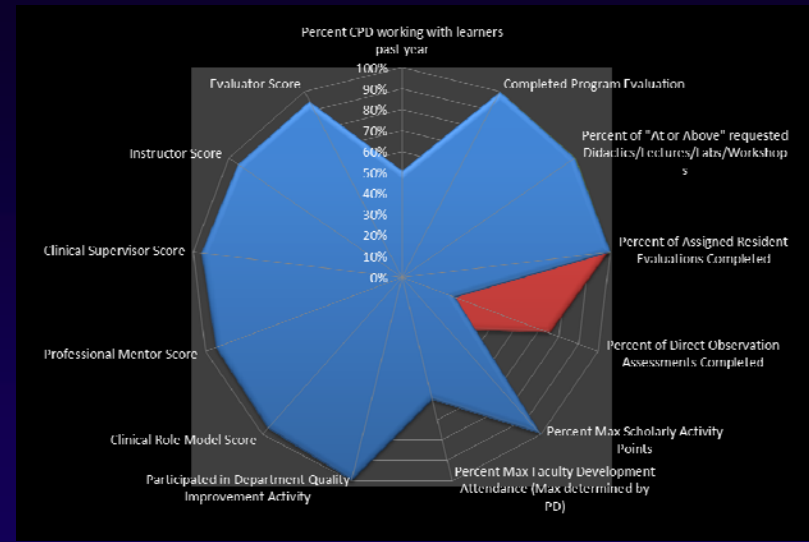
# How does the Program Use this for Feedback?



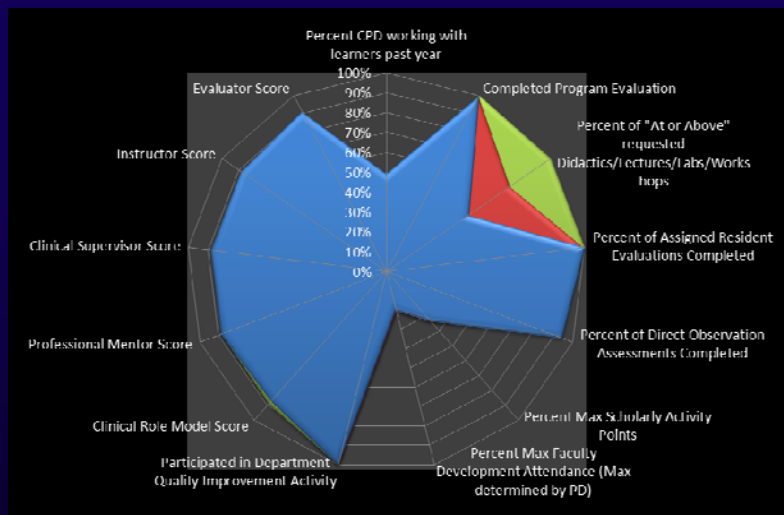




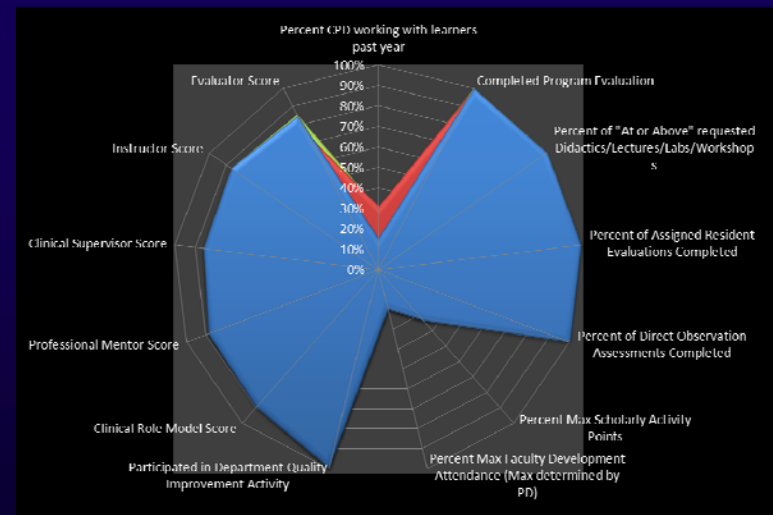
“Before we assign you more learners...”



“How can we get you to integrate the Mini-CEX better?”



“Any opportunities to get you to lecture more?”



“Let’s look for more ways to get you Involved in our teaching program...”

# Faculty Development Conversation Starter

- Common themes on radar plots can trigger structured faculty development sessions
- Faculty can see relative performances
- Informs the Program Evaluation Committee on one Program Measure
- Useful tool to demonstrate current status and change in program performance over time