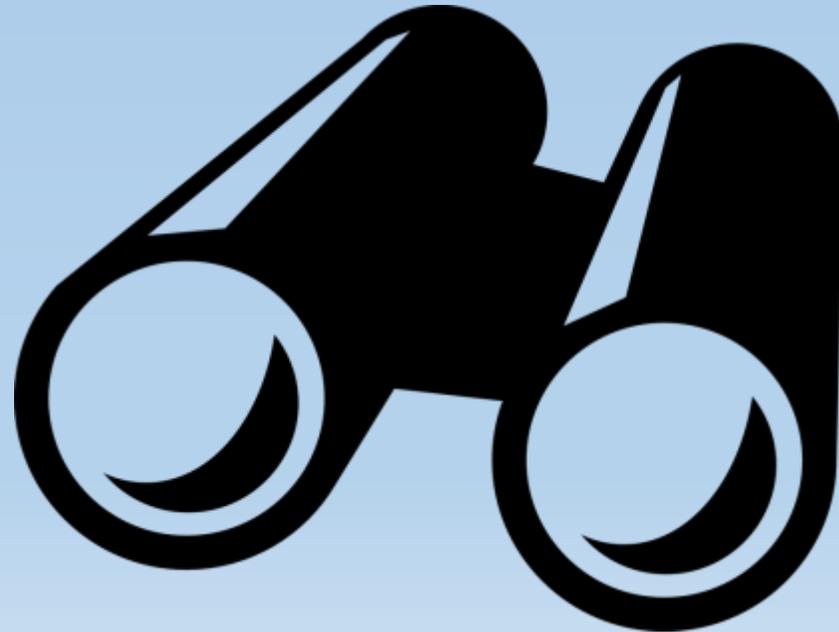


# A VIEW FROM THE OTHER SIDE:

From QC Manager to QA Manager

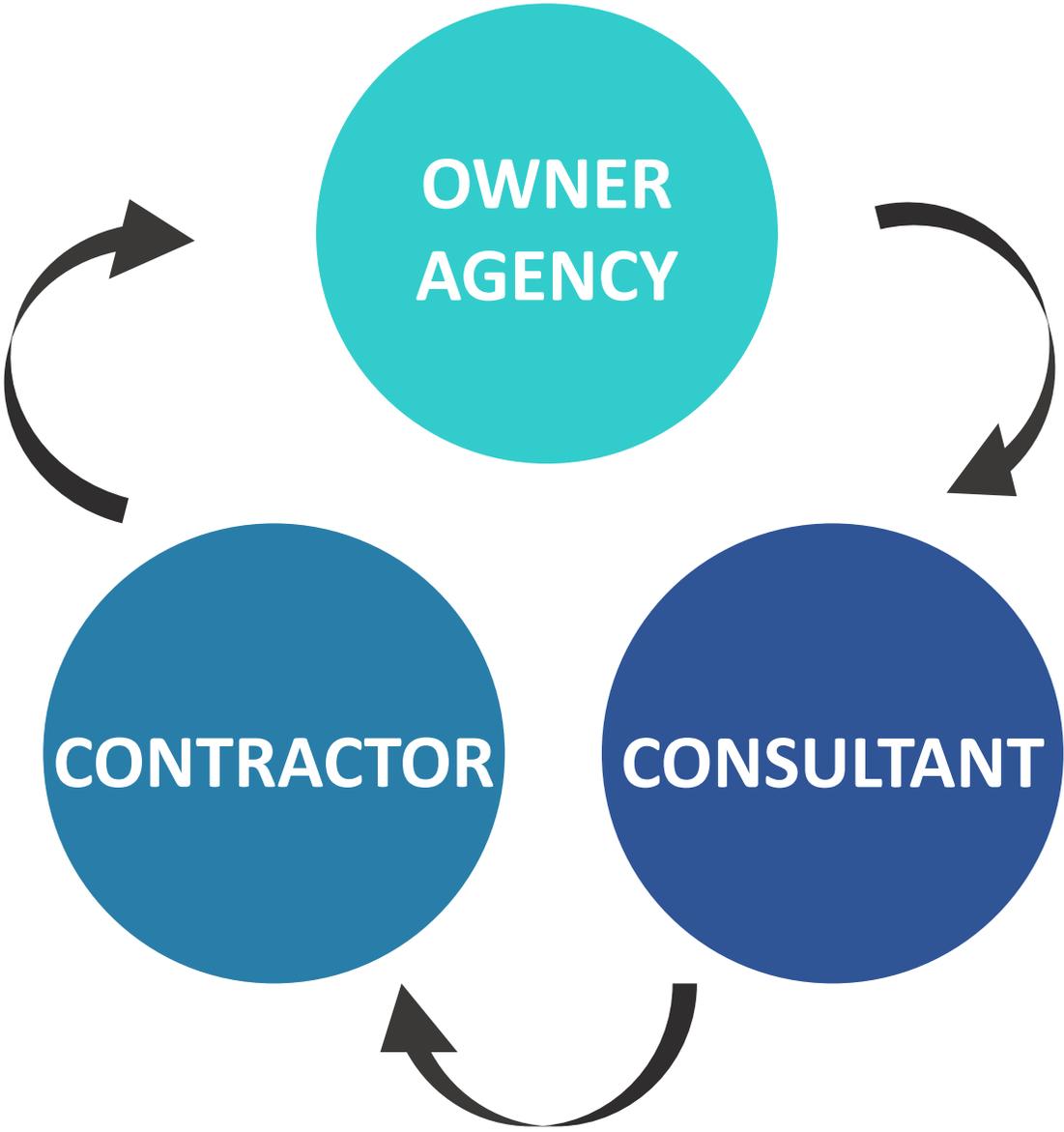


# MIKE SCHILKE – IDOT DISTRICT ONE LABORATORY MANAGER

- Graduate – University of Nebraska, 1986, Construction Management
- 28+ years industry experience
- 20+ years as QC Manager for contractor
- Ongoing member of Joint IAPA / IDOT HMA Technical Working Group

**2009 RECIPIENT  
IAPA QC  
MANAGER'S  
AWARD**

# EXPERIENCE COMES FULL-CIRCLE





Moving over ...

QC to QA

# IDOT DISTRICT ONE: FIRST SIX MONTHS



- **Evaluate** testing Protocols
- **Monitor** flow of Test Samples
- **Review** IDOT lab staff performance
- **Appraise** existing consultant staff
- **Assess** current reporting procedures
- More than just an HMA QA lab

# CASE STUDY: ROUND ROBIN 2016

## Z-SCORE BREAKDOWN - VOIDS 2016

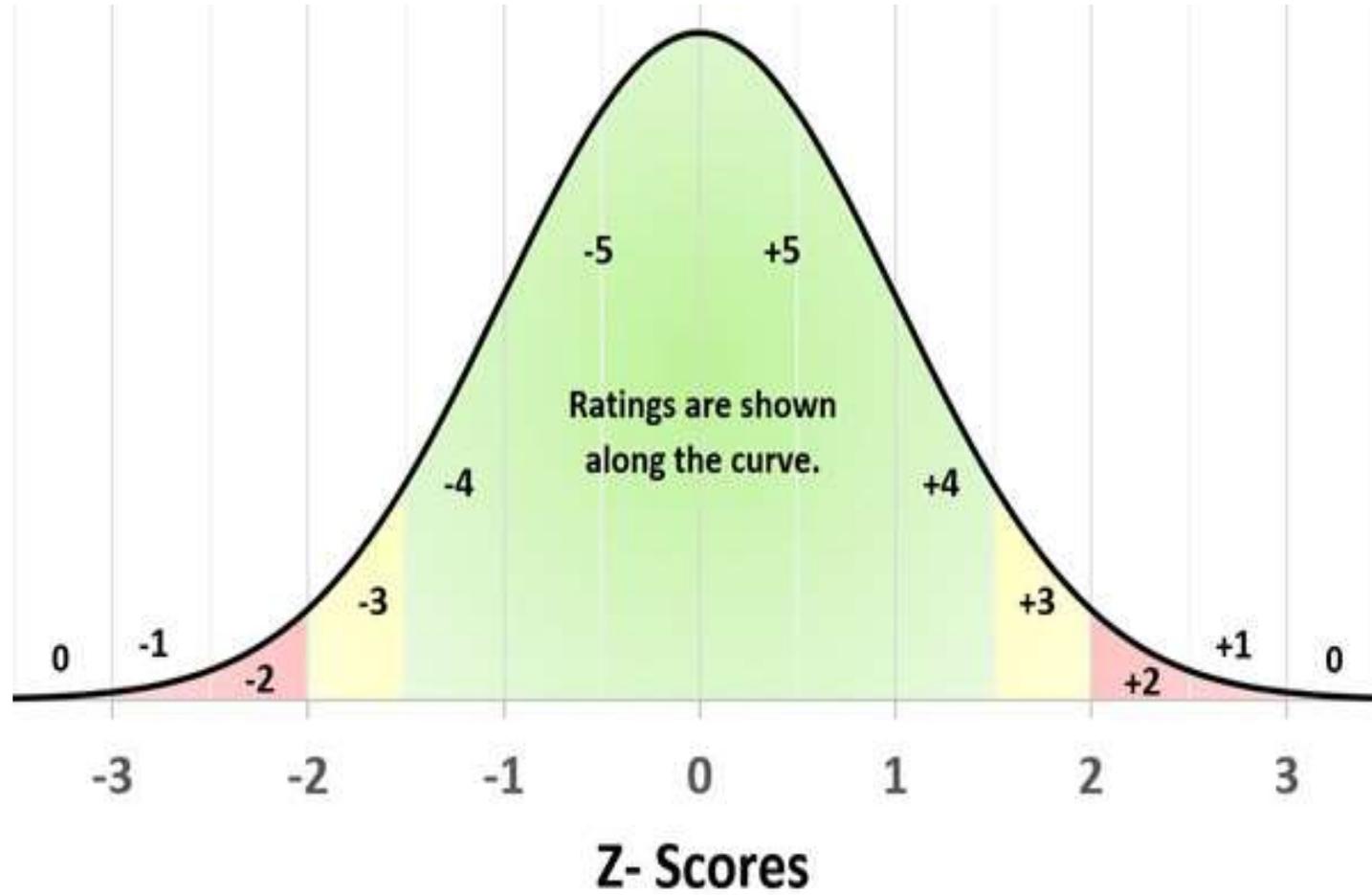
Z-SCORE	JUNE	JULY	AUG	SEPT	OCT	NOV
5	67.0%	72.0%	68.0%	76.0%	72.0%	70.0%
4	12.5%	12.0%	16.0%	12.0%	16.0%	17.0%
3	12.5%	8.0%	4.0%	0.0%	0.0%	9.0%
2	8.0%	8.0%	8.0%	12.0%	12.0%	4.0%
OTHER	0.0%	0.0%	4.0%	0.0%	0.0%	0.0%

## VOIDS SUMMARY

GREEN	125/147 =	85.0%
YELLOW	8/147 =	5.0%
RED*	14/147 =	10.0%

\*BMPR was RED 6 of 6

# AASHTO – PSP ANALYSIS DESCRIPTION



# CASE STUDY: ROUND ROBIN 2017

## Z-SCORE BREAKDOWN - VOIDS 2017

Z-SCORE	MAY	JUNE	JULY	AUG	OCT
5	65.5%	69.3%	69.3%	76.0%	68.0%
4	19.2%	19.2%	19.2%	16.0%	28.0%
3	3.8%	7.7%	3.8%	8.0%	4.0%
2	3.8%	3.8%	3.8%	0.0%	0.0%
OTHER	7.7%	0.0%	3.8%	0.0%	0.0%

## VOIDS SUMMARY

GREEN*	115/128=	89.8%
YELLOW	7/128=	5.5%
RED**	6/128=	4.7%

\*CBM was GREEN 3 of 5

\*\*CBM was RED 2 of 5

# COMPARISON: 2017 PFP CHALLENGE RESULTS

## ROUND ROBIN

### D1 VS. CBM

AVE= -0.96%  
 STD= 0.29

## ALL CHALLENGE SAMPLES

### D1 VS CBM

AVE= -1.01%  
 STD= 0.67

## CONTRACTOR COMPARISONS

	<u>CONTR W-4</u>		<u>CONTR X-7</u>		<u>CONTR Y-4</u>		<u>CONTR Z-3</u>	
D1	<u>RR</u>	<u>CH</u>	<u>RR</u>	<u>CH</u>	<u>RR</u>	<u>CH</u>	<u>RR</u>	<u>CH</u>
AVE=	-0.1%	-2.1%	-0.2%	-1.4%	-0.1%	-1.5%	0.5%	1.3%
STD=	0.39	0.4	0.53	0.53	0.64	0.26	0.70	0.29
CBM								
AVE=	0.9%	-1.2%	0.8%	0.1%	0.6%	0.2%	1.5%	2.5%
STD=	0.19	0.51	0.44	0.82	0.39	0.21	0.60	0.08

# MOVING FORWARD

## HOW TO MAINTAIN “BEST PRACTICES” – SHORT AND LONG TERM

- AASHTO Certified laboratory
- Set stricter internal guidelines
- New testing Equipment
- Transparency of testing results
- Streamline reporting process
- Quicker turnaround of results
- CMMS database system (future)



## PROVEN SUCCESS

- Fostered strong relationships among multiple agencies
- Expertise / ongoing training
- Surrounded by good people:
  - Training
  - Experience
  - Passion to get it right



## COMMITMENT

- ✓ Understand point-of-view of all parties
- ✓ Will provide a quality result every time....
- ✓ Accurate reporting based on materials provided
- ✓ Increase confidence in results

**COMMON GOALS:**

Cost effectiveness

Durable materials

Safer roadways



**OWNER AGENCY**

**CONTRACTOR**

**CONSULTANT**

