



LADCO | LAKE MICHIGAN
AIR DIRECTORS CONSORTIUM

LADCO 2024 Business Meeting

Directors Report

Presented to the LADCO Board

Zac Adelman
LADCO Executive Director

September 25, 2024

Agenda for Today

- 7:45 Welcome, review agenda
- 8:00 LADCO business update
- 9:00 US EPA technical updates and discussion
- 10:00 PM_{2.5} and O₃ NAAQS attainment planning and compliance
- Noon Lunch and air quality trends reports
- 1:00 EJ and Title VI discussion
- 2:30 Open Discussion
- 3:30 States-only meeting
- 5:30 Adjourn
- 6:30 Dinner @



Business Meeting Agenda

- LADCO 2024 year in review
- Training summary
- FY24-25 grant summary and analysis
- FY25 budget and workplan



Session Objectives

- Understand the financial health of LADCO, review the plan for our technical work over the next year, and discuss if LADCO is well-positioned to meet the needs of our members
- Approve 2025 Budget
- Review and approve 2025 workplan

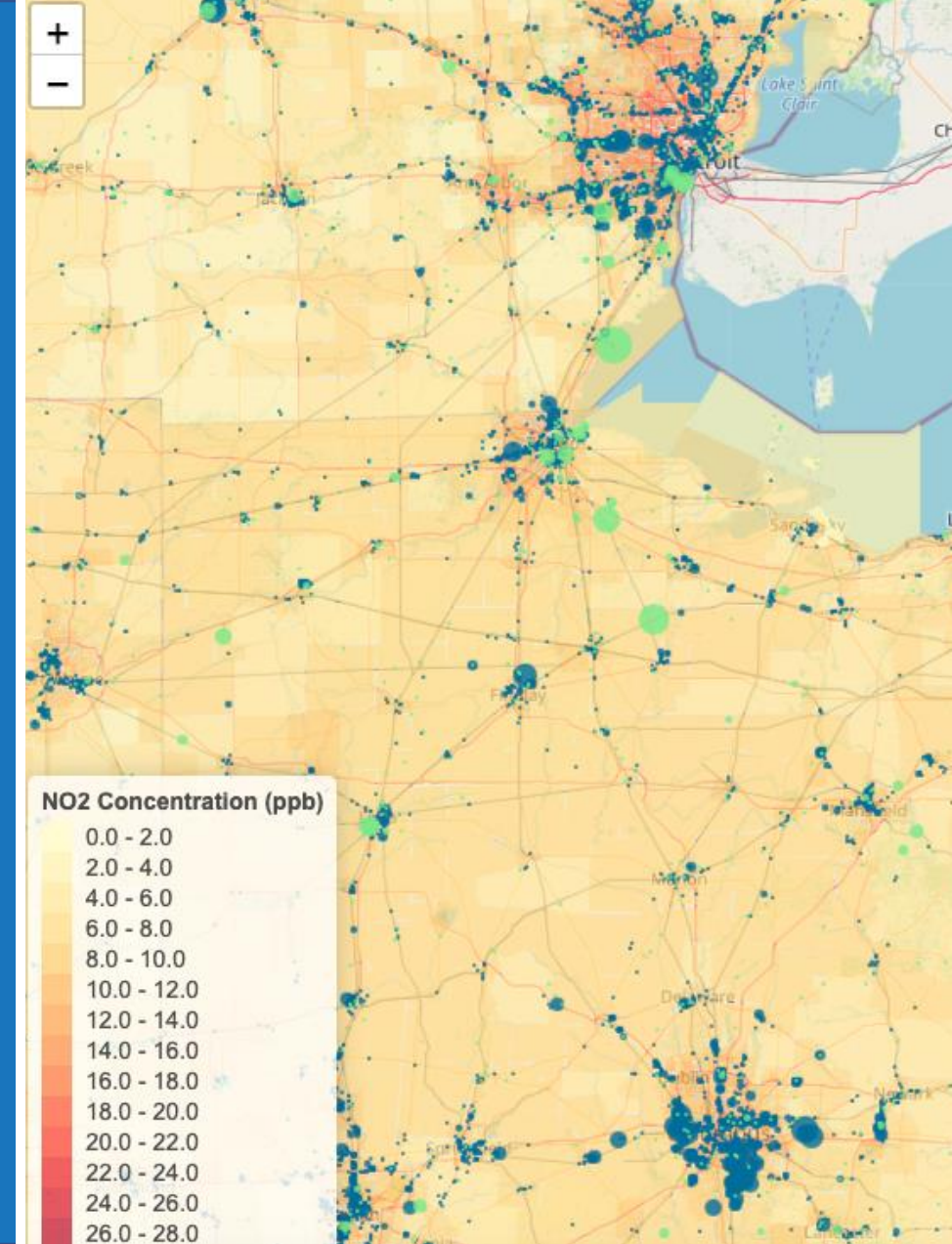


LADCO FY24 In Review

- Ozone planning support
 - Lake Michigan ozone workgroup
- Comments
 - RHR revisions (EPA)
 - AMNET Hg network (NOAA)
 - Clean Ports Rule (EPA)
- IRA Coordination
 - CPRG Workgroup
 - CPRG grant application collaboration
- PM2.5 planning Support
 - PM2.5 Technical Workgroup
 - AQS data flagging
 - Design value forecasting
 - Precursor significance testing
- Emissions Development
 - 2022 National Emissions Collaborative
 - 2022v1 emissions modeling platform
- Summer Interns
- Exceptional Events
 - Smoke impact metrics
 - Summer 2023 EE demos for Toledo and Rock Island
- Internal research and development
 - Data analysis workgroup
 - WRF 2022 modeling
- Organized and scheduled trainings
- Contracts
 - R training for air agency staff

2024: Capacity Building and Quality Improvements

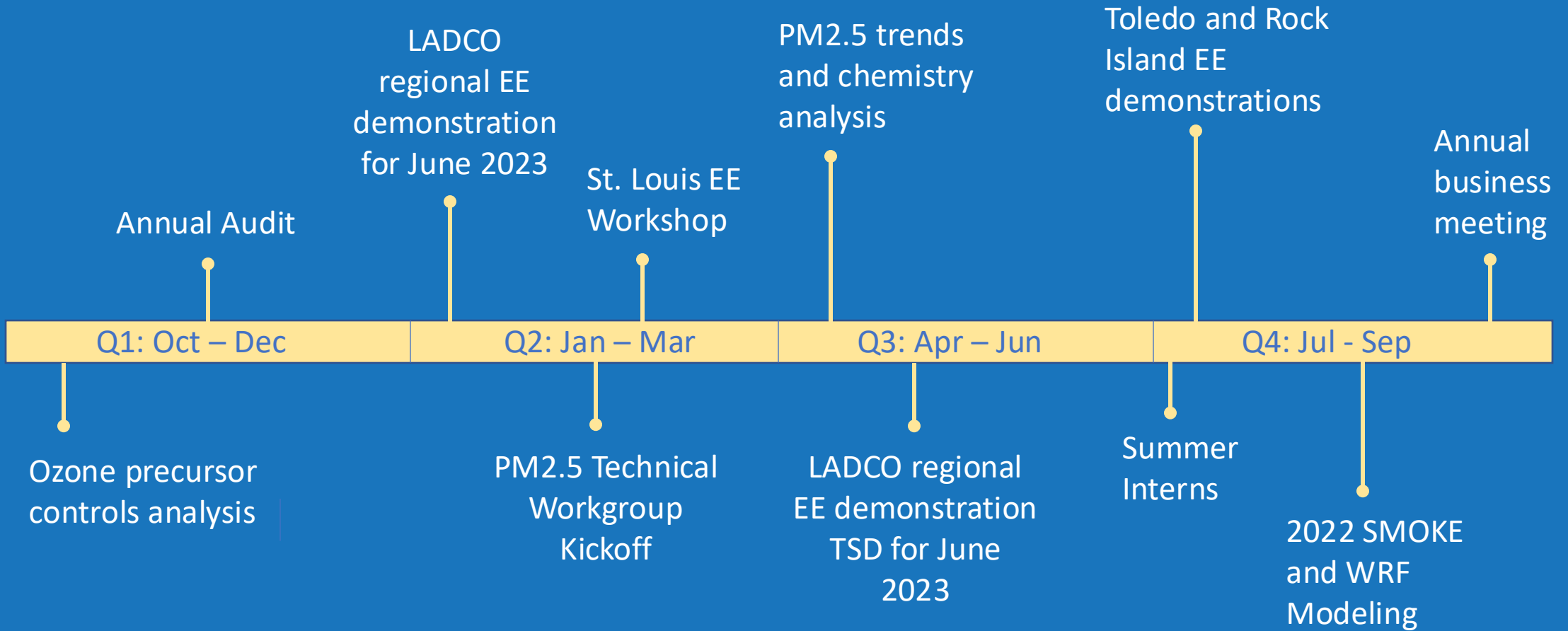
- 2022 WRF and SMOKE modeling
 - Includes enhanced QA
- PM_{2.5} chemistry and conceptual model research
- Machine learning tools for meteorology, ozone, and PM2.5 analysis
- Interactive online data analysis tools
 - Satellite NO_x + Point Emissions + Warehouses ([link](#))
 - US EPA inventory analysis ([link](#))
 - Industrial point emissions analysis ([link](#))
 - PM2.5 urban increment calculator ([link](#))



LADCO Quality Management System

- New 5-year Quality Management Plan written in October 2022 and approved August 2023
 - Dr. Tsengel Nergui is the LADCO Quality Assurance Manager
- LADCO modeling Quality Assurance Project Plan (QAPP) approved July 2024
- Quarterly quality system meetings with LADCO staff
 - Develop, review, approve modeling and analysis SOPs and QAPPs
 - Automate and operationalize as much of the QA system as possible
 - Create a culture around quality management at LADCO
 - Be intentional about quality control

LADCO FY24 In Review



LADCO FY24 Training Summary

Dates	Course	Instructors	Location	Enrollment
Oct-23	Advanced Inspector Training	New Solutions	WDNR	30
Nov-23	Inspection and Monitoring of Landfill Gas Emissions for Agency Inspectors	Bill Franek	MI EGLE	32
Dec-23	Intermediate Permitting	Trinity	IL EPA	44
Dec-23	Principles of Ambient Air Monitoring	Gordon Pierce	Online	35
Jan-24	Enforcement of NSR/PSD Requirements	New Solutions	Online	31
Feb-24	Write Like a Pro	Century College	MPCA	60
Feb-24	Title V Permit Training	RTP Environmental	Online	31
Feb-24	Aggregate, Asphalt, & Concrete Batching Operations	New Solutions	Online	35
Feb-24	Surface Coatings: Metal Parts & Products	New Solutions	Online	34
Feb-24	Permit Writing Practices and Principles	New Solutions	Online	41
Feb-24	Sources and Control of Volatile Organic Air Pollutants	Aly Hassan Ashraf	Online	31
Feb-24	Effective Permit Writing	Eastern Research Group	Online	37
Mar-24	Introduction to Environmental Enforcement	Western States Project	Online	7
Mar-24	Theory & Application of Common Air Pollution Control Devices	SC&A, Inc	Online	39
Apr-24	Note Taking & Report Writing	Western States Project	Online	4
Apr-24	NOx Formation, Emissions, and Control	Bill Franek	Online	36
Apr-24	Advanced Inspector Training	SC&A, Inc	MI EGLE	20
May-24	Enforcement Case Development and Resolution	New Solutions	IL EPA	26
May-24	Risk Communication Training	EHS, Inc	MI EGLE	20
May-24	Introduction to R	Fluent, LLC	Online	30
May-24	MOVES Training	FHWA	Online	17
May-24	Effective Permit Writing	Eastern Research Group	Online	42
Jun-24	Microsoft Access Masterclass	Udemy Academy	Online	6
Jun-24	Compliance Assurance Monitoring	New Solutions	Online	42
Jun-24	Stationary Reciprocating Internal Combustion Engines	New Solutions	Online	35
Jun-24	Stationary Gas Turbines and Power Plants	New Solutions	Online	36
Jul-24	NOx Formation, Emissions, and Control	Eastern Research Group	Online	31
Jul-24	NSR Workshop	AWMA	Chicago, IL	36
Jul-24	Emissions Part 1 & 2	Trinity	Online	6
Aug-24	The Art and Science of Deception	Western States Project	Online	19
Aug-24	Project Inspector Safety Training	Western States Project	Online	16
			Total	909

~ 500 students trained last year

These are instructor-lead classes; data on self-instructional learning are not readily available

Several other courses not included, e.g., HAZWOPR, odor

Grant target = 400 people trained/year

LADCO 2024 Summary

- LADCO managed > 30 training session for > 900 people
- Policy-relevant research on ozone and PM in the region
 - Significant amount of research on 2023 smoke impacts for PM2.5 planning and exceptional events
- Initiated 2022 WRF and SMOKE modeling
- External outreach and leadership in the Joint Training Committee, NADP, CRC, and National Emissions Collaborative



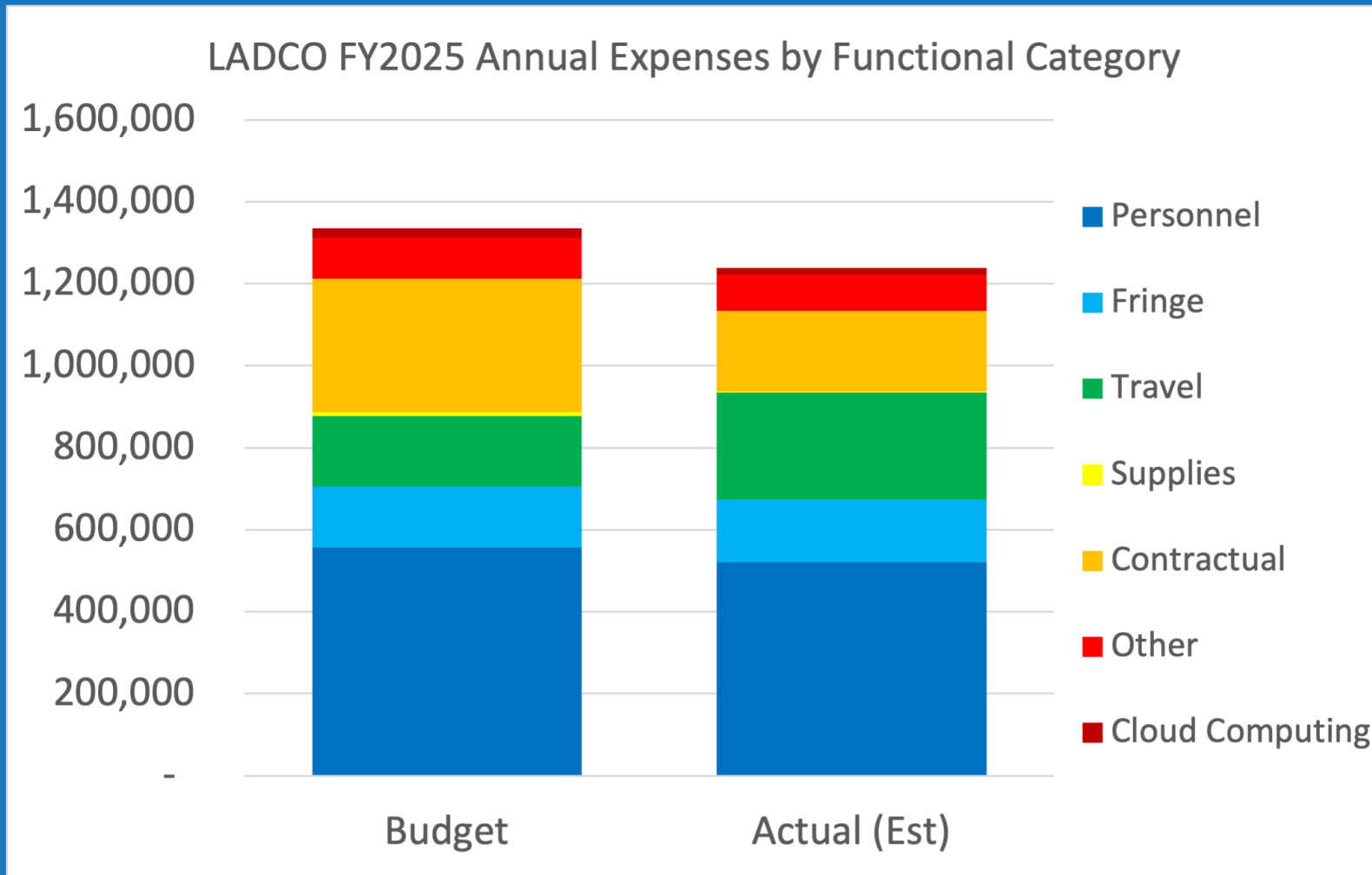
LADCO 2024-25 Revenues

<u>REVENUES</u>	FY24	FY25	FY24-25
EPA/LMOP Grant	820,000	820,000	1,640,000
EPA/Training	378,545	378,545	757,090
LMOP Total	1,198,545	1,198,545	2,397,090
Other Grants/Contracts			
MI EGLE Mercury	25,000	25,000	50,000
IDEM Mercury	48,616	48,616	97,232
Training Supplement	63,196	63,196	126,393
Carry Over	3,616		3,616
Federal TOTAL	1,338,973	1,335,358	2,674,331
WI DNR Overhead	6,000	16,000	22,000
TOTAL	1,344,973	1,351,358	2,696,331

LADCO FY24 Budget Summary

Object Class Categories	FY24 Budget	FY24 Actual*	Diff
Personnel	\$556,525	\$519,806	\$ 36,719
Fringe Benefits	\$148,858	\$154,100	\$ (5,242)
Travel	\$172,000	\$261,232	\$ (89,232)
Supplies	\$ 10,000	\$ 3,196	\$ 6,804
Contractual	\$325,826	\$195,909	\$129,917
Other	\$ 99,513	\$ 87,912	\$ 11,601
Cloud Computing	\$ 23,150	\$ 16,661	\$ 6,489
TOTAL	\$1,335,872	\$1,238,816	\$97,056

LADCO FY24 Spending Summary



- Personnel budget used a higher salary adjustment than approved
- Overspent travel; underspent contracted training

LADCO FY24 Training Budget Summary

	Budget	Travel	Contractor	Registrations	Supplies	Total	Balance
IL	65,000	15,896	4,253	34,903	0	55,052	9,948
IN	65,000	13,591	8,598	11,025	740	33,954	31,046
MI	65,000	29,764	31,633	3,056	593	65,045	(45)
MN	65,000	18,411	10,110	8,553	370	37,444	27,556
OH	65,000	14,410	8,000	10,249	4,070	36,729	28,271
WI	65,000	42,369	0	7,794	555	50,718	14,282
LADCO	22,619	13,843	22,750	4,405	0	40,998	(18,379)
Total	412,619	148,283	85,344	79,986	6,328	319,940	92,679

LADCO 2024 Budget Summary

- LADCO underspent our annual budget by 7.3% (\$97,056)
- Most of the underspending was in training contracts
 - Offset by overspending in training travel
 - Still under budget for training by ~22%



FY25 Grant Summary – Budget Categories

Object Class Categories	FY2025
1. Personnel	\$567,606
2. Fringe Benefits	\$178,707
3. Travel	\$166,000
4. Equipment	\$0
5. Supplies	\$8,129
6. Contractual	\$325,826
7. Construction	\$0
8. Other	\$93,528
Cloud Computing	\$20,663
TOTAL FUNDING	\$1,360,459

- Health insurance premiums will increase ~21% for CY 2025
- Requesting 2% salary increase for LADCO staff
- Currently no funds for general contracts

LADCO FY25 Compensation Proposal

Request pay raises for LADCO staff

- Across the board 2% merit raise + cost of living adjustment



Proposed LADCO FY2025 Work Priorities

- Ozone
 - 2015 O₃ NAAQS attainment demonstration TSD
 - Trends analysis
- PM2.5 and Haze
 - PM trends and decision support tools
 - 2024 Annual PM2.5 NAAQS attainment testing
- Training
 - Identify priorities and broker training funds
 - Advocate for states in the national training program
 - Drive development of remote/e-learning
- Monitoring
 - 5-year network assessment support
 - Hg monitoring program support
- Other Issues
 - Environmental justice support
 - National inventory collaborative
 - Exceptional events support
- Outreach and Communication
 - Facilitate regional planning among member states
 - IRA coordination
 - Engage with region stakeholders
 - Host outreach webinars and events
 - LADCO website

Meeting Summary

1. Summary and take-aways
2. Action Items