

BEDC Quest to Become the Best

Kathryn Mallon, PE

Deputy Commissioner

BEDC is on a Journey to Excellence





Performance Goals Established

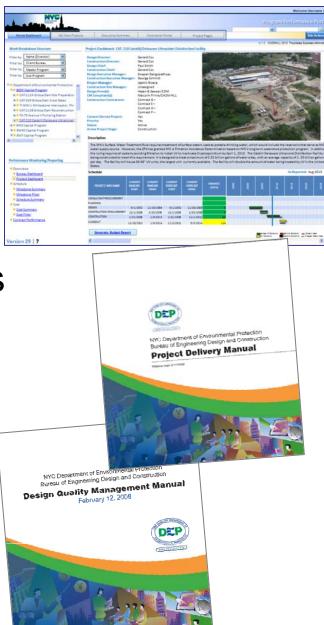


Performance Metric	Goal
<u>Schedule</u>	
Construction Closeout	< 15% Delay <18 months
Cost	
Construction Contracts	<10%
Consultant Contracts	< 20% < 15%
Engineer's Estimate Bid Change Orders	+20% to -5% -30%
Change Order Processing	120 Days
Payments	45 Days

Started with Systems and Procedures

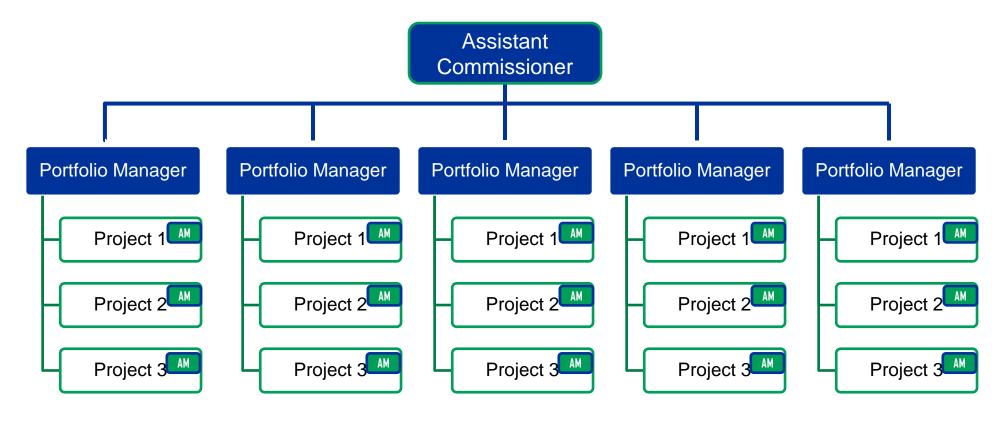


- Project Delivery System
- Cost Estimating Manual
- Design Quality Management Manual
- Construction Management SOPs
- Permit Tracking Database
- Project Management Information System



Major Reorganization to Drive Accountability





- Structure focused on project delivery
- Flatter organization reduces layers of management, speeds up decision making, enhances communication/staff involvement
- Single point of accountability for each project

Changing Culture Starts with Defining Core Values



1. Safety

Every day, everyone goes home safe on BEDC projects.

2. Client Service

BEDC recognizes the Operating Bureaus as our clients and strives to meet their needs through quality project delivery and partnerships built on trust and respect.

3. Quality

BEDC strives to design high quality projects are constructed with the finest workmanship to ensure longevity.

4. Budget

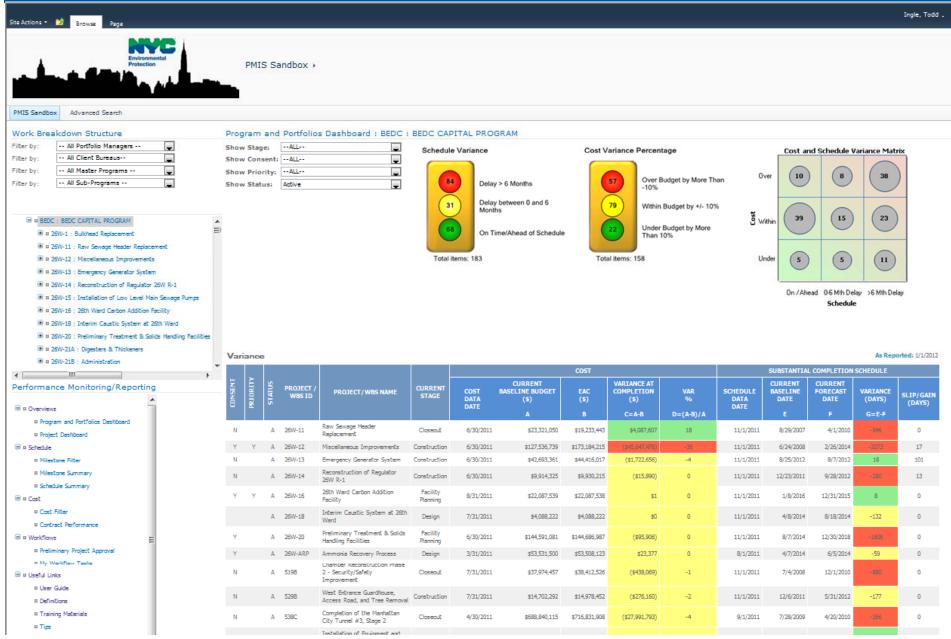
BEDC is committed to spending every capital dollar wisely to deliver high value on behalf of the Agency and our rate payers.

5. Schedule

BEDC strives to deliver projects when promised - our infrastructure requires timely upgrades to ensure reliable operations and time is money.

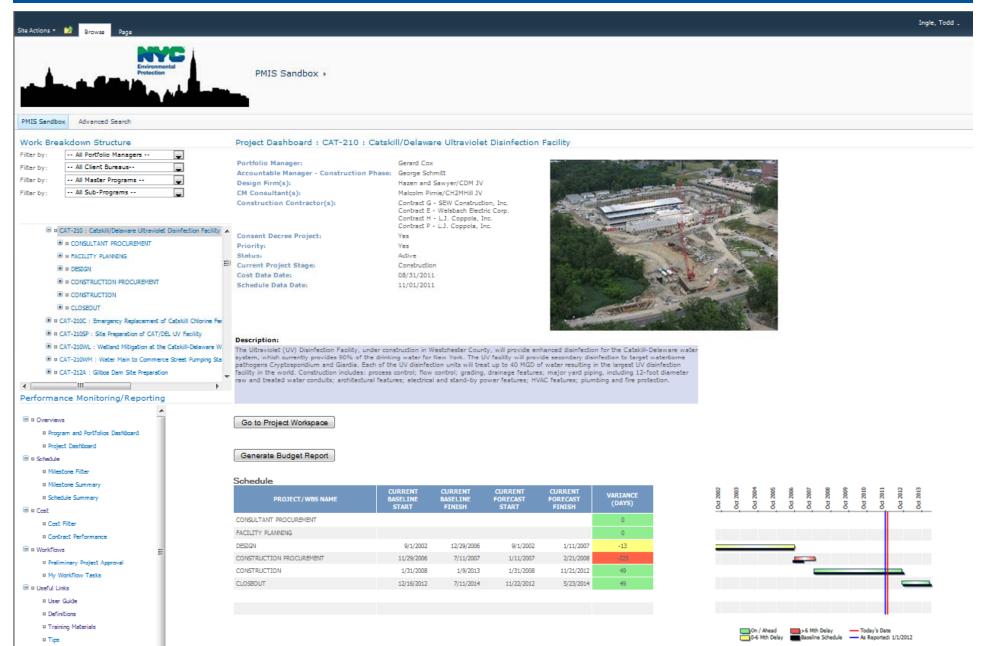
Web-Based Project Management Data





Project Performance Closely Monitored





Good Governance Keeps Us Focused on Mission



Project ID No: Project Title: Accountable Mgr: NC-36
Main Building North Modifications
Eric Lehan

Reporting Period: Current Phase: Project Status: Apr 2012
Construction
Active

4/30/2012

Contract Summary

			Latest Contract Evaluation	Current Project	Comments
_			Rating	Performance Rating	Commence
Design:	NC-UPGRD DES	Greeley & Hansen/ Hazen & Sawyer/ Malcolm Pirnie (JV)	Good	Good	anticipate project completion by 7/30/12
CM:	NC-CM02	Hazen & Sawyer, P.C. /Malcolm Pirnie (JV)	Good	Good	anticipate project completion by 7/30/12
Contractor:	NC- 36E	Five Star Electrical Corp.	Good	Good	anticipate project completion by 7/30/12
Contractor:	NC- 36G	Silverite Construction Co., Inc.	Good	Good	anticipate project completion by 7/30/12
Contractor:	NC- 36H	CDE Air Conditioning	Good	Good	anticipate project completion by 7/30/12
Contractor:	NC- 36P	Skountzos Plumbing & Heating Corp.	Good	Excellent	anticipate project completion by 7/30/12

General Project Performance to Date

General Performance (Red, Yellow, Green)			Comments/Corrective Actions		
EHS	Scope	Schedule	Budget	Quality	Comments/Corrective Actions
Acceptable Audits	Insignificant Scope Change Impact	Delay > 6 Months	Over Budget by >10%	> 2% E/O	contractor is expediting completion of the odor control system and conveyor system

Project Performance This Reporting Period

Monthly Performance (Red, Yellow, Green)			Community Committee Autions			
EHS	Scope	Schedule	Budget	Quality	Comments/Corrective Actions	
Acceptable Audit	No NMSC Initiated	Recoverable Schedule Slip	No Change to Design/CM EAC	Medium		

EHS Performance

Audit Results Within This Reporting Period:

Audit Results Within This	Reporting Period:		
Contract	Last Date Performed in This Period	# Life Threat/High Hazard Observations	Corrective Action Plan
NC-CM02	N/A	N/A	
NC- 36E	4/25/2012	0	
NC- 36G	4/25/2012	1	
NC- 36H	4/25/2012	0	
NC- 36P	N/A	N/A	

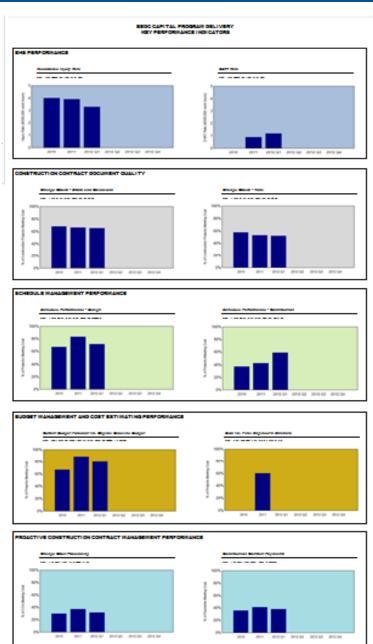
Incidents Detail Within This Reporting Period:

Contract	Incident Date	Incident Type	Incident Description	Lessons Learned / Corrective Action Plan
NC-36G	4/3/2012	Injury	Incident Description: On Tuesday, 04/03/12, the CM was notified by the contractor that Silverite employee was injured. While removing the inlet hatch to carbon tank #3, he lost his grip and his right hand was struck by the hatch cover. The top of his han	

Key Performance Indicators Posted Quarterly



- Safety
- Quality
- Schedule
- Budget
- ContractManagement



Strong In-House Design Makes Us a Better Owner



Project	Status	Budget
Orchard Beach PS	In Construction	\$2.5 Mil
Throgs Neck PS	90% Design Complete	\$30 Mil
Shaft 21 Building	In Construction	\$2.5 Mil
Newtown Creek TRC	30% Design	\$10 Mil
Hannah Street PS	Basis of Design Report	\$30 Mil
Wards Island Emergency Generators	Basis of Design Report	\$40 Mil
Rikers North PS	Basis of Design Report	\$5 Mil
Jerome Park Repairs	Basis of Design Report	\$10Mil
Jerome Park Gatehouses	Project Scoping	\$15Mil
TOTAL		\$145Mil

Best In-House Tunnel Skills in the Country



Project	Status	Budget
CT3 Shaft Mechanical Design	In Construction (on-time)	\$175 Mil
RWBT Shafts (BT-1)	Out to Bid	\$230 Mil
RWBT Tunnel (BT-2)	Design Starting	\$700 Mil
B-Q Shafts 17B and 18B	BODR Complete	\$225 Mil
JFK Meter Vault	Basis of Design in Progress	\$2 Mil
TOTAL		\$1.35 Bil

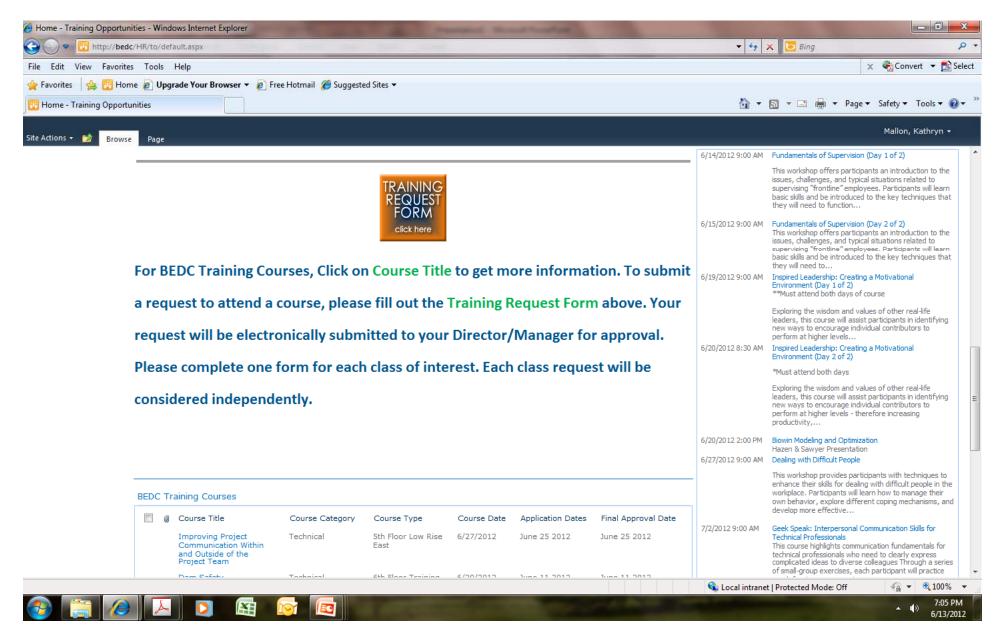
Our People Are Our #1 Asset



- Recruiting "Best and Brightest" of top engineering schools and assigning to our Best Mentors
- Launched Workforce Development Program to clearly communicate skills requirements to our staff
- Launched Extensive Training Program –
 Technical and Managerial Curriculum
- Expanded In-House Design and Construction Management Programs
- Staff Recognition: Project Delivery and Safe Site Team Awards; Quarterly New Hire Breakfast

Training Investment Paying Dividends





What We Are Paying Closer Attention to...



- Payment Turnaround Times
- Change Order Processing Durations
- Timely Response to Disputes
- Article 16 and 44 letters within 30 days
- Shop Drawing Process
- Contract Closeout and Final Payments
- Schedule Management during construction
- Information Transparency (COs, Payments, Closeout, SOPs)

A Better Business Partner thru Contract Reform

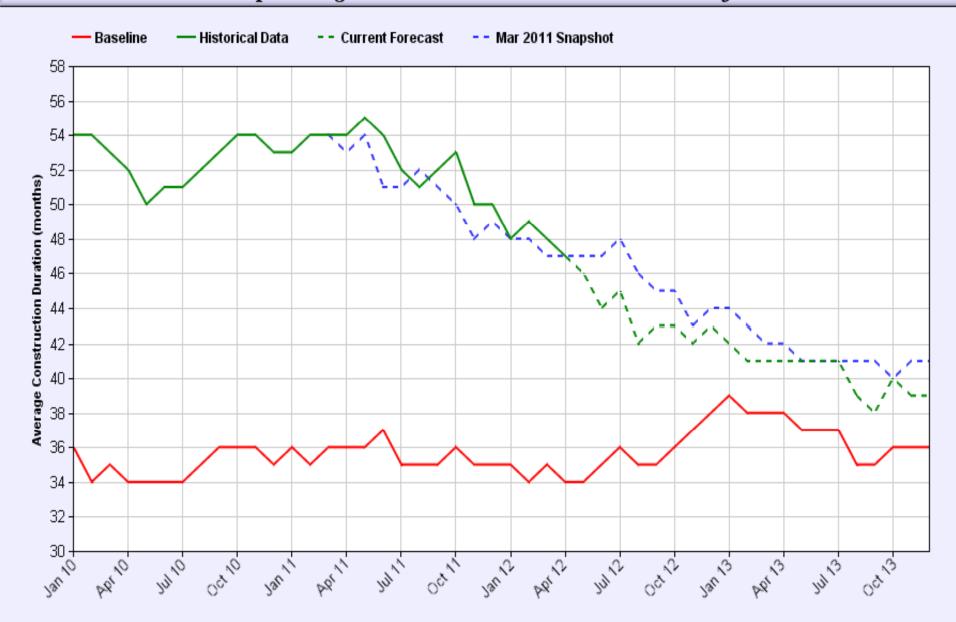


- Damages for Delays
- Eliminated Vendor Approvals
- Included Quality Inspection Instructions in Contracts
- Revamped Value Engineering
- Partnering Requirements
- Project Labor Agreement
- Pre-Qualification for Major Construction Projects
- Escrow Bid Documents
- Geotechnical Baseline Reports

Change Is Working....Schedule Management

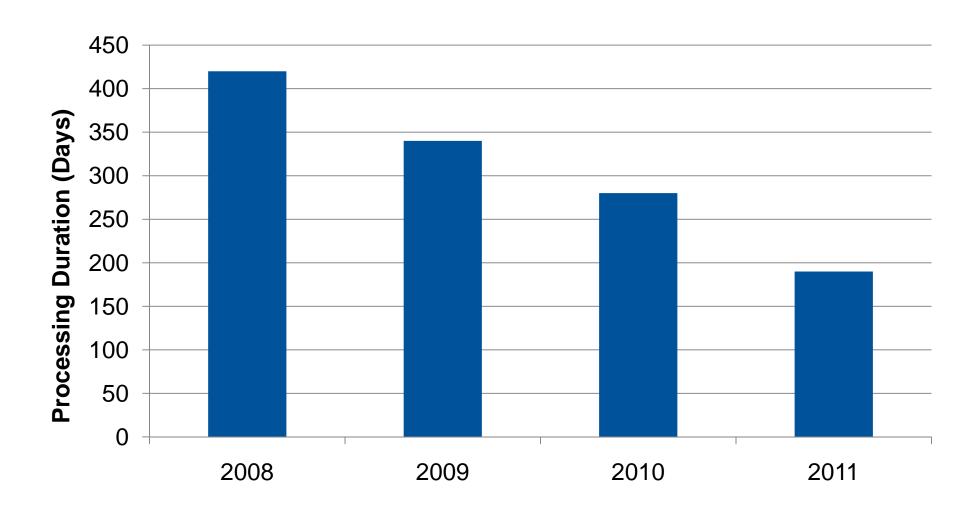


BEDC Capital Program Construction Duration Trend and Projection



Change is Working....Change Orders





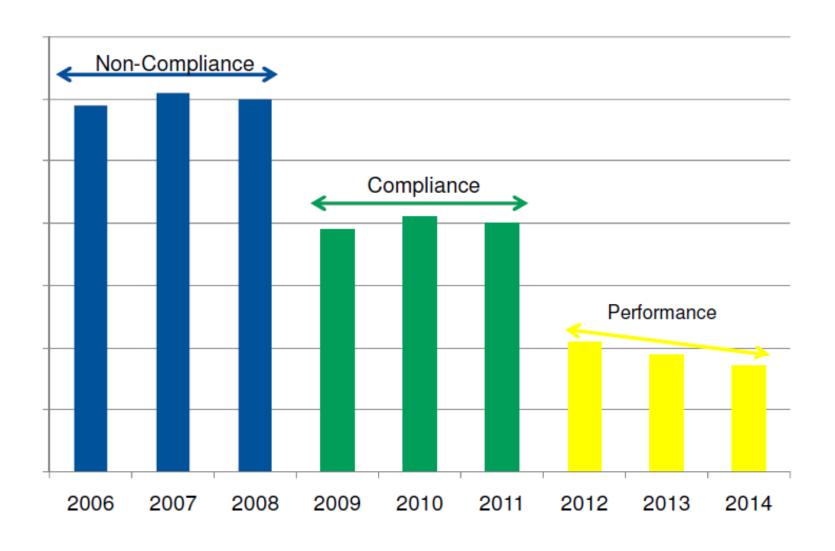
Always More to Do...



- Demand Higher Quality Contract Documents from our Consultants
- Demand More Pro-Active Performance from our Construction Managers
- Greater Accountability in our BEDC Staff
- Update our Contract Specifications
- Revamp our Quality Program to ensure that we are getting value
- Revamp our Safety Program to ensure that our requirements are actually resulting in safer sites
- Ways to expedite delay claims at the comptroller office
- Contingency Allowances in our Contracts
- Lobby for Alternative Delivery Legislation to give us more delivery tools

EHS Performance Had Stagnated





EHS Management System Under Development



EHS MANAGEMENT SYSTEM

DEP's "goal is to run the safest operations and capital program in the country with the best environmental compliance record of any large water and wastewater utility."

(DEP's Strategic Plan)

In line with that goal, BEDC is building an Environmental, Health and Safety *Management System*.

The goals of our EHS Management System are to:

- Reduce BEDC, Construction Manager and Contractor injuries, illnesses and incidents at our project sites
- Implement effective Pollution Prevention programs to further enhance our environmental stewardship
- Maintain a commitment to "Continual Improvement" that goes beyond compliance





Need Better Performance from our Consultants



Performance Evaluation for Quarter ending

ltem	Criteria	Max. Score	Score
	Safety		
1	CM staff is working safely and promoting safety	3	
2	Working with the contractors to promote safe working practices	3	
	Documentation/Communictions		
3	As-built documentation is being properly maintained	2	
4	Project files are being properly maintained	2	
5	Project Communications are effective	3	
	Technical Capability		
6	Project staff is properly trained and effective	2	
7	Contractor working relationships are effective	3	
8	Staff is providing value to the program work effort	3	
	Staffing		
9	Projects are staffed in accordance with the staffing plan	2	
10	Subconsultants are being managed properly	2	
11	Working well as a part of a multidisciplinary project team	3	
	Schedule		
12	Project deliverables are provided on schedule	2	
13	Each project is being managed to meet the contract schedule	2	
14	Turnaround of contractor documentation is timely	3	
	Cost Control		
15	Consultant billings are accurate and timely	2	
16	Contractor payment applications are processed quickly and accurately	2	
	Change Management		
17	Resolution of changes is timely	2	
18	Change estimates are accurate and timely	2	
19	Provided timely notice of potential changes of out of scope work and claims	2	
	Quality		
20	Quality control is performed according the submitted project plan	2	
21	Project deliverable quality	3	
_	Total Percentage Score	50	0

Rating Guidelines:

3 - Exceeds Expectations, 2- Meets Expectations, 1 - Needs Improvement

Calculation of the performance element of the fee will be as follows:

less than 60% - no performance fee

DU% to 09% - 1%

80% to 89% - 3%

90% to 100% - 49

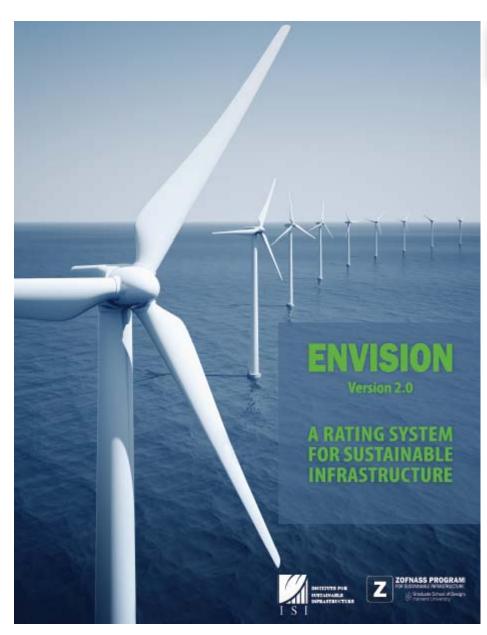
Performance Fee Schedule

Contract Year	Base Fee	Max Performance Fee
1	8.0%	0.0%
2	7.0%	4.5%
3	6.0%	5.5%
4	5.0%	6.5%

Score	Typical Characteristics
10.0	Outstanding performance. Significant improvement not imaginable
7.5	Some areas where performance could be improved, but overall what would be called a "good CM".
5.0	Average and competent, but not remarkable CM, adequate performance and motivation.
2.5	Clearly sub-par performance.
0.0	A disaster; abysmally poor performance.

Sustainability Isn't an Option Anymore









Graduate School of Desig Harvard University



If you are behaving the same way today as yesterday, expect the same outcome.