ADEQ Vision

To be the No. 1 state in the nation in:

- **balanced, leading-edge environmental protection.**
- **technical and operational excellence.**
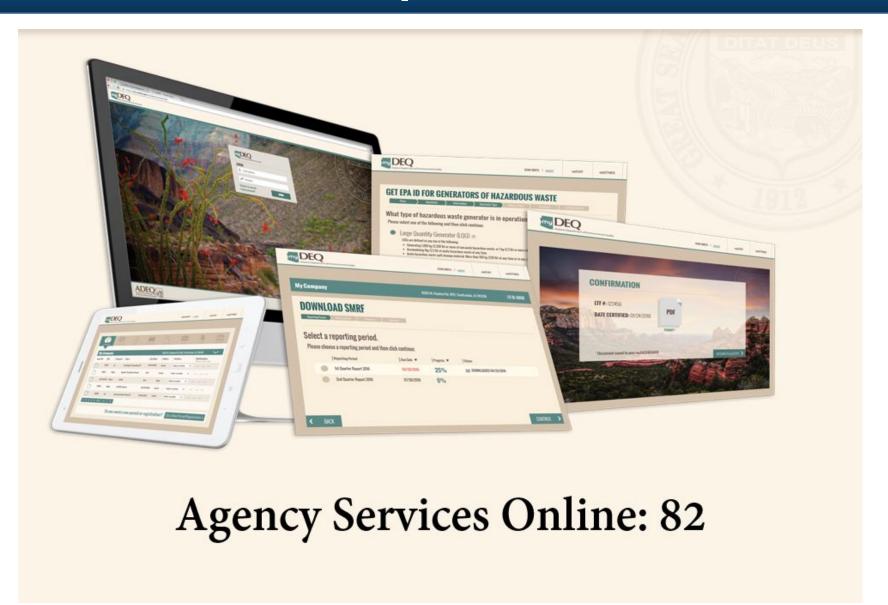- **radical simplicity for customers and staff**

ADEQ Mission

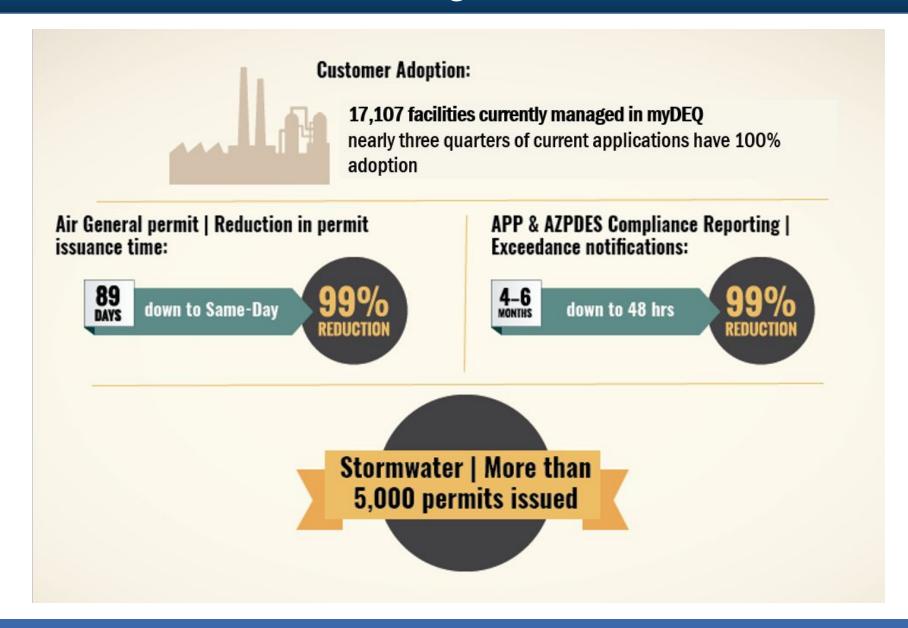**Protect and enhance public health and the environment in Arizona**

myDEQ FY21

State of Arizona – Arizona Department of Environmental Quality

DATE of ITAC: 9/16/2020

Agency Services Online: 82

5,482 active company accounts

7,515 active user accounts

42,000+ transactions performed in FY20

$4M electronic payments received through myDEQ to date this fiscal year

$154M estimated economic benefit to Arizona using an US EPA economic model calculator

Recognition

CIO 100 Enterprise Excellence Award	*2020 winner of CIO 100 Award for Technology Innovation and Business Transformation*
Center for Digital Government Award	*2019 Winner of State Digital Government Experience Award*
Arizona Forward Crescordia Award	*2019 Winner of Environmental Excellence Crescordia Award for Arizona Water Watch mobile app*
ECOS Award	*2018 Winner of State Innovation Award for Arizona Water Watch mobile app*
NASCIO Award	*2018 Finalist for innovation & excellence in digital interaction between government and business*

Project Introduction

Problem Statement:

- Every year businesses transact with ADEQ in obtaining required licenses and submit reports to demonstrate compliance with environmental regulations. These transactions using paper forms are error prone and time consuming resulting in increased processing times and regulatory burden for businesses.

Benefit of a New System:

- Increased Arizona economic activity as a direct result of faster processing times
- Reduced adverse environmental impact as a result of identifying violations within 48 hours
- Staff repurposed to solving environmental problems
- Government at the speed of business

Proposed Solution

Solution

Arizona businesses helped ADEQ prioritize a catalog of 147 services (Permits, Registrations, Compliance Reporting,etc.) that could benefit them in meeting their environmental obligations if available online. ADEQ has developed a scalable platform where services are added incrementally to myDEQ. Since 2015, 82 services have been implemented and are utilized by businesses every day. Each fiscal year, ADEQ works with businesses to rank services from the catalog and requests funding from the legislature for continued application development This approach limits the financial and technical risk to a smaller scope, allowing businesses and the legislature to incrementally select and fund the project accordingly. ADEQ proposes to implement 6 additional services in myDEQ in FY21.

Technology Stack

- Host - AWS (State of Arizona)
- User Interface - Html, CSS & Java Script
- Business Layer - Java & Java scripts
- Database - Oracle & Mongo DB
- Version control - Github
- Project Management: Atlassian Jira, Confluence, Trello

Project Responsibilities

Agency

1. Project Management
2. Infrastructure and Technical architecture
3. User Acceptance Testing
4. Communication & Training

Shared

1. Business Analysis
2. Application architecture
3. Data Architecture
4. Coding
5. Unit & Integration Testing
6. Deployment

Vendor/Contractor

1. Scrum Master
2. System Testing

Program Structure

Oversight
ITAC
JLBC

Executive Steering Committee

Project Advisory Committee

Program Sponsor
(Michael Keyack)

ASET PMO Support

Program Manager
(Gary Heller & Sudhakar Adda)

Solutions Group

Systems / Infra Architect
Application Architect
Data Architect
UX Designer

Project Development
Khursheed Mallick (Dev. Manager)

SCRUM TEAM 1
Scrum Master
Business Analyst
UI Developer
Java Developers
Oracle Developers
Tester

SCRUM TEAM 2
Scrum Master
Business Analyst
UI Developer
Java Developers
Oracle Developers
Tester

Operations

Project Manager
Business Analyst
Full stack Developer
Oracle Developers
Tester
Database Administrator
Customer call center support

Project Timeline

FY21 mvDEQ Development				2020						2021					
TASK	PROGRESS	START	END	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
UST NOTIFICATION															
Kaizen	100%	8/1/20	8/14/20		▓										
Pencil	100%	8/14/20	8/21/20			▓									
Mockups	50%	8/21/20	10/16/20			▓	▓								
Develop	0%	10/16/20	11/6/20				▓								
Design	0%	11/6/20	11/30/20					▓							
Build & Test	0%	11/20/20	2/5/21					▓	▓	▓	▓				
Implement	0%	2/7/21	2/12/21								▓				
Financial Responsibility/Assurance															
Kaizen	100%	8/21/20	8/28/20		▓										
Pencil	100%	8/28/20	9/4/20			▓									
Mockups	25%	9/4/20	10/23/20			▓	▓								
Develop	0%	10/15/20	10/23/20				▓								
Design	0%	10/15/20	10/30/20				▓								
Build & Test	0%	10/30/20	3/24/21					▓	▓	▓	▓	▓			
Implement	0%	3/26/21	3/31/21									▓			
SUSPECTED RELEASE RI															
Kaizen	0%	11/12/20	11/20/20					▓							
Pencil	0%	11/20/20	11/27/20					▓							
Mockups	0%	11/27/20	1/22/21						▓	▓					
Develop	0%	1/22/21	2/12/21							▓	▓				
Design	0%	2/12/21	3/1/21								▓				
Build & Test	0%	3/1/21	4/16/21									▓	▓		
Implement	0%	4/18/21	4/23/21										▓		
TSIP															
Kaizen	0%	11/30/20	12/4					▓							
Pencil	0%	12/4/20	12/11						▓						
Mockups	0%	12/11/20	1/5/20						▓						
Develop	0%	1/5/21	2/26/21							▓	▓				
Design	0%	2/26/21	4/2/21									▓			
Build & Test	0%	4/2/21	6/18/21										▓	▓	
Implement	0%	6/20/21	6/25/21												▓
OPEN BURN PERMITS															
Kaizen	100%	9/15	9/30/20			▓									
Pencil	100%	9/30/20	10/7			▓	▓								
Mockups	0%	10/7/20	10/15				▓								
Develop	0%	10/15/20	10/30				▓								
Design	0%	10/30/20	11/1				▓								
Build & Test	0%	11/1/20	12/11					▓							
Implement	0%	12/13/20	12/18						▓						

Financial Impact

Project Development Funding

Project Development Funding	
Professional and Outside Services	$1,270,000
Software Licenses	$20,000
Total Development Budget (Base budget funding)	$1,290,000

Total Development Project Funding

Total Development Project Funding	
Available Budget	$1,290,000
To Be Requested Budget	$0

Operational Delta

Operational Delta	
Current 3-Year Operational Cost (Avg)	$50,000
Proposed 3-Year Operational Cost (Avg)	$50,000
Financial Impact of New System	$0

Total Operational Funding - Project

Total Operational Funding - Project	
To Be Requested Budget	$0

What Success Looks Like

- 2,180 additional regulated facilities to be onboarded into myDEQ platform

- Regulated community to experience a 90% improvement in the agency's turn around time.

- Regulated community to return 60% faster to environmental compliance

- $7.2M estimated annual economic benefit to the State of Arizona (per EPA calculator)

- ADEQ staff to realize a 80% reduction in data entry efforts which will be productively deployed towards environmental compliance monitoring and assistance.

Q & A
Session

ADEQ is requesting approval for myDEQ FY21 which will deliver the following online services into production.

6 Online Services

Total project cost $1.29M

Projected completion date June 30, 2021