



TEAM 13: DUCKLING

MEMBERS: ARASH, ISHTIAQUE, ANNABEL, BRIAN, JORGE, SAUL
& MENTOR KARTIK

DUCKLING?

1 BIG problem:

- Cal Poly's lack of supplier diversity

Supplier diversity: engaging with small and diverse businesses

- Proactively creates a more inclusive and equitable supply chain
- Positive social and economic impact



WHATS THE PROBLEM

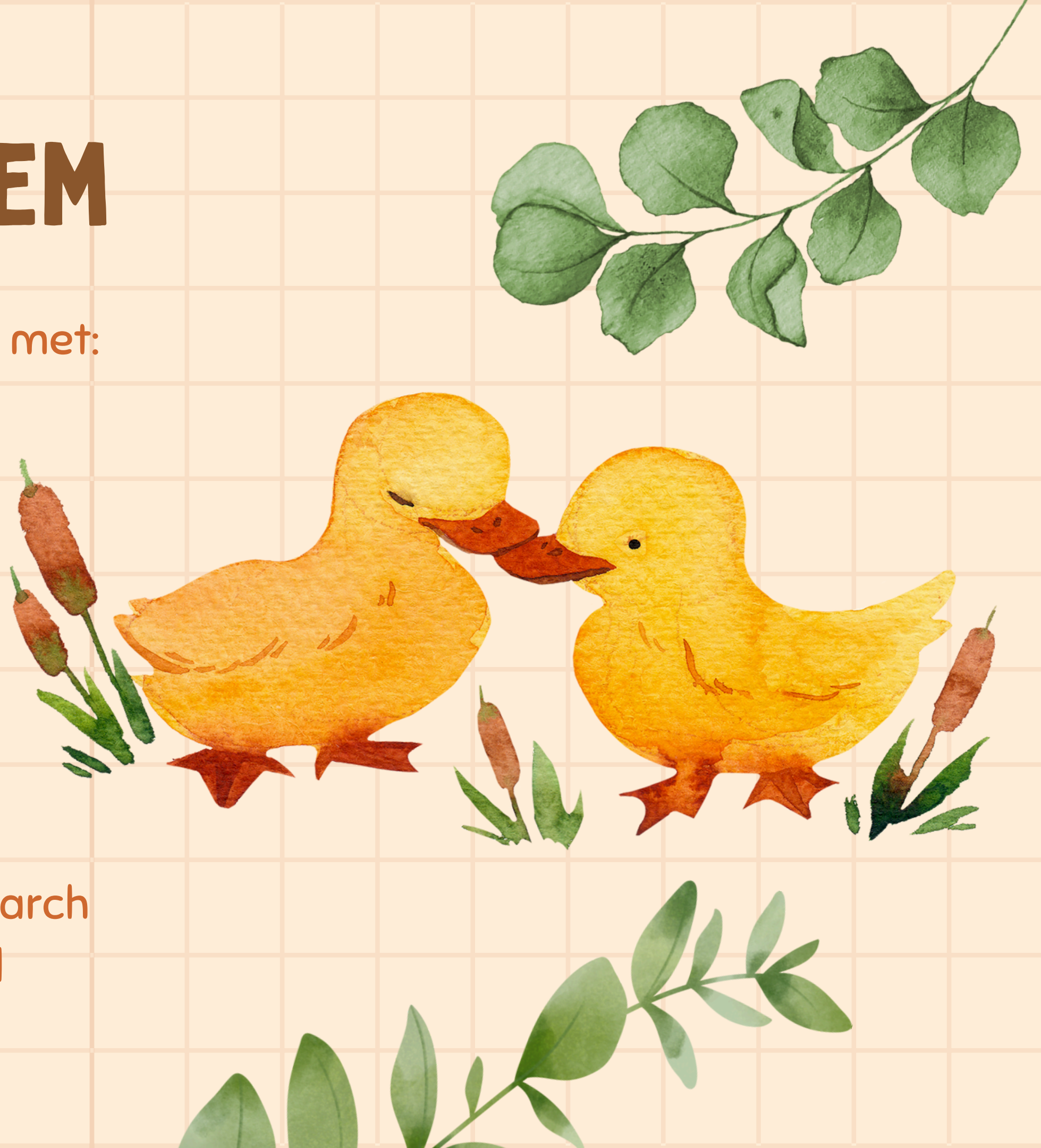
Procurement Diversity goals aren't being met:

- 25% Small Business
 - 3% Disabled Veteran Business Enterprises

Tracking + reporting metrics:

- time-consuming
- inefficient

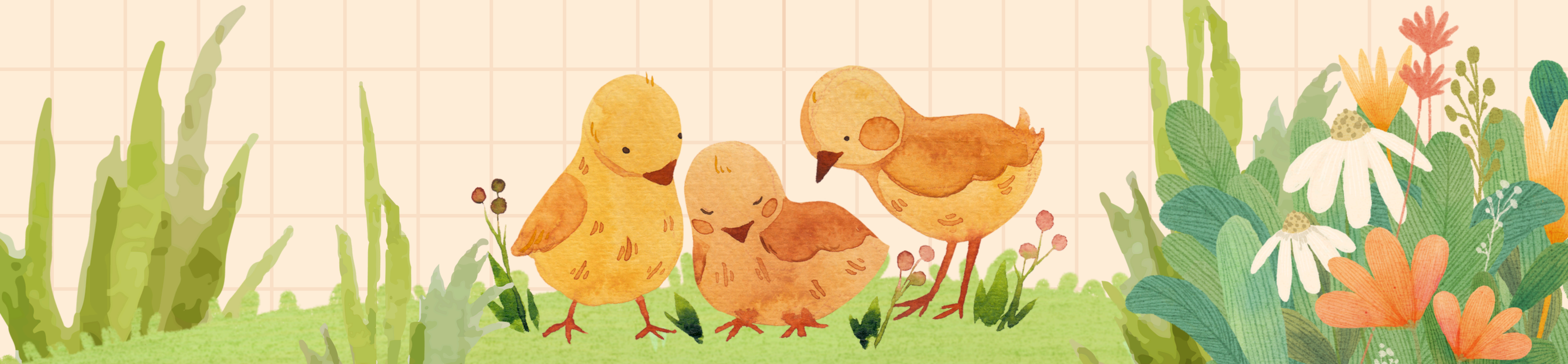
Objectives: To simplify procurement research and find solutions to reach the 25% Small Business diversity requirement



DATA

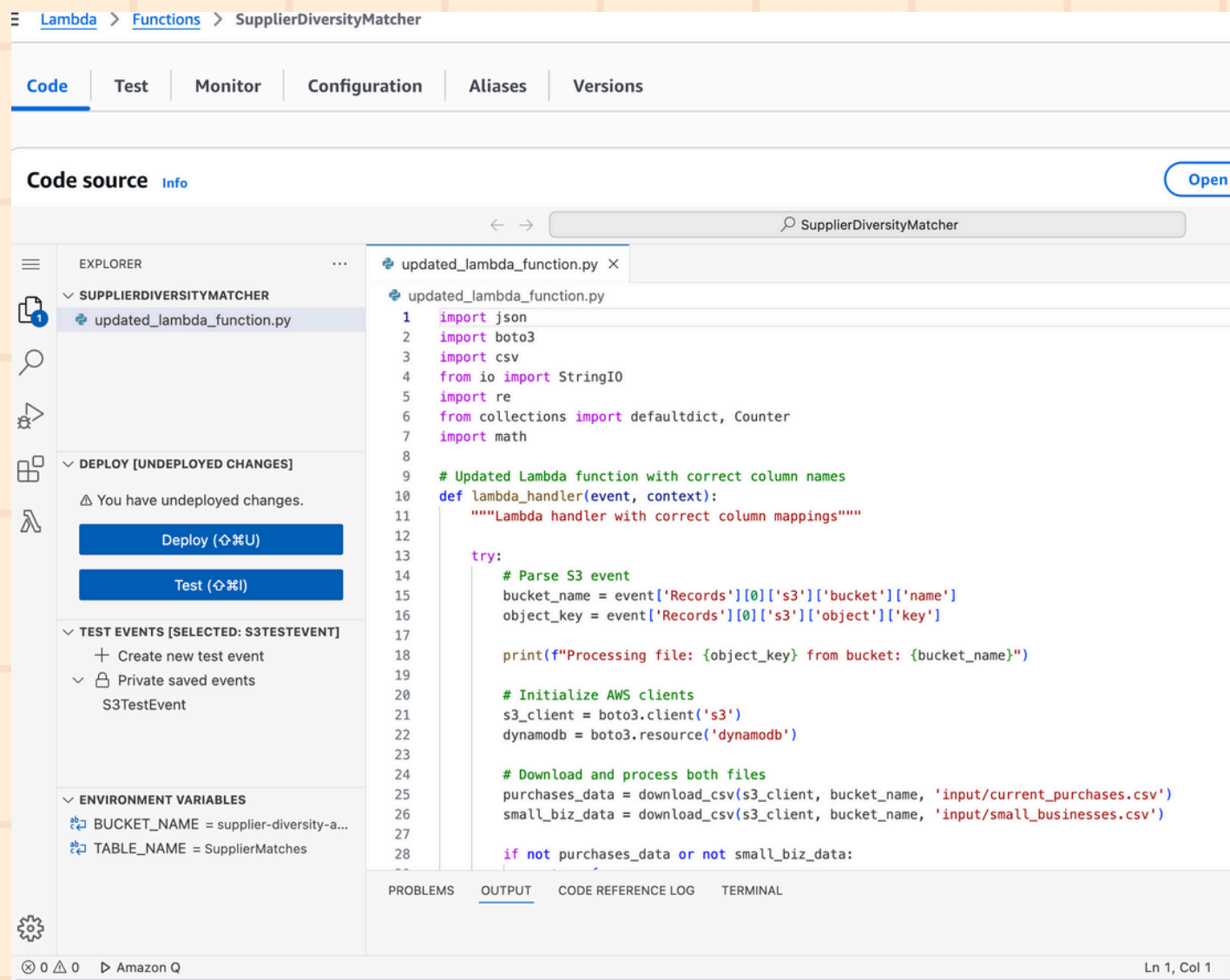
1	Certification ID	Legal Business	Doing Business	Other DBAs	Certification Type	Start Date	End Date	Email ID	First Name	Last Name	URLID	Telephone	Fax Number	Address Line 1	Address Line 2
2	15	INDUSTRIAL M/	AMERICAN MAI	INDUSTRIAL M/	SB(Micro)	07/24/2022	01/31/2026	rob@goamsco.c	Robert	Garner	http://www.amsc	818/256-1411		PO BOX 60581	
3	45	DRAVES PIPEL	DALE DRAVES DBA	DRAVES PI	DVBE,SB(Micro)	12/29/2023	12/31/2025	dale@dravespip	Dale	Draves	http://www.drave	760/728-7094	7607280086	P O BOX 1051	
4	72	DHS Associates			DVBE,SB(Micro)	07/31/2024	07/31/2026	djshannon@volc	Donald	Shannon, li		209/295-8877		PO Box 1024	
5	89	Firecode Safety Equipment, Inc.	FIRECODE SAF		SB,SB-PW	11/07/2023	11/30/2025	Sarah@Firecode	Sarah	Stanley		916/833-5561	9164565591	3722 W Pacific Ave	
6	91	ANCHOR ENGII	ANCHOR		SB(Micro)	05/31/2024	05/31/2026	bisa@teamanch	BISA	GRANT	www.teamanch	925/385-0950		PO BOX 2261	
7	178	SHAWNAN COF	SHAWNAN CORPORATION		DVBE	11/28/2023	11/30/2025	shawnancorp@e	John	Smith		562/803-9977	5628039955	CASALERO DR	
8	180	J R CONKEY &	SOLAR POWER INTEGRATORS		SB(Micro)	04/16/2024	04/30/2026	mconkey@jrcon	Mary	Conkey	www.jrconkey.co	916/783-3277	9167833277	SE AVE S'	
9	190	GREAT PACIFIC	GREAT PACIFIC SECURITIES		SB	11/06/2023	11/30/2025	cvinck@greatpa	Christopher	Vinck	http://www.great	714/619-3000	7146193000	DR STE	
10	191	Gonneville Inc	Gonneville Inc		DVBE,SB(Micro)	09/30/2024	09/30/2026	don@gonneville	Don	Gonneville	www.gonneville	949/248-7000			
11	265	TransTech Syste	TransTech Systems		SB(Micro)	03/21/2025	03/31/2027	bj@transtechsys	BJ	Meder	http://www.trans	949/262			
12	272	GILLIES TRUCKING INC		GILLIES TRUCK	SB	07/29/2025	07/31/2027	ap@gilliestruckir	Ken	Gillies		209-94			
13	277	Gilbert CPAs			SB	10/06/2023	10/31/2025	vfernandez@gilt	Veronica	Fernandez	gilbertcpa.c				
14	282	Underground Uti	Underground Uti	UNDERGROUN	DVBE,SB(Micro)	06/03/2024	06/30/2026	estimating@uuis	Michael	Harness					
15	298	LELAND SAYLC	Leland Saylor At	LELAND SAYLC	SB	12/13/2024	12/31/2026	bsaylor@lelands	Bad						
16	320	WAHRENBROC	WAHRENBROCK CAPITAL		DVBE,SB(Micro)	11/09/2023	11/30/2025	wahrenbrock@a	Andrew						

- Cal Poly's 2024 spend report
- Old Dominion University benchmark report
- State Of California SB/DVBE db



SOLUTION OVERVIEW:

DUCKLING



MARKET VALIDATION



Target Audience:

- Cal Poly Procurement Staff

Market Size:

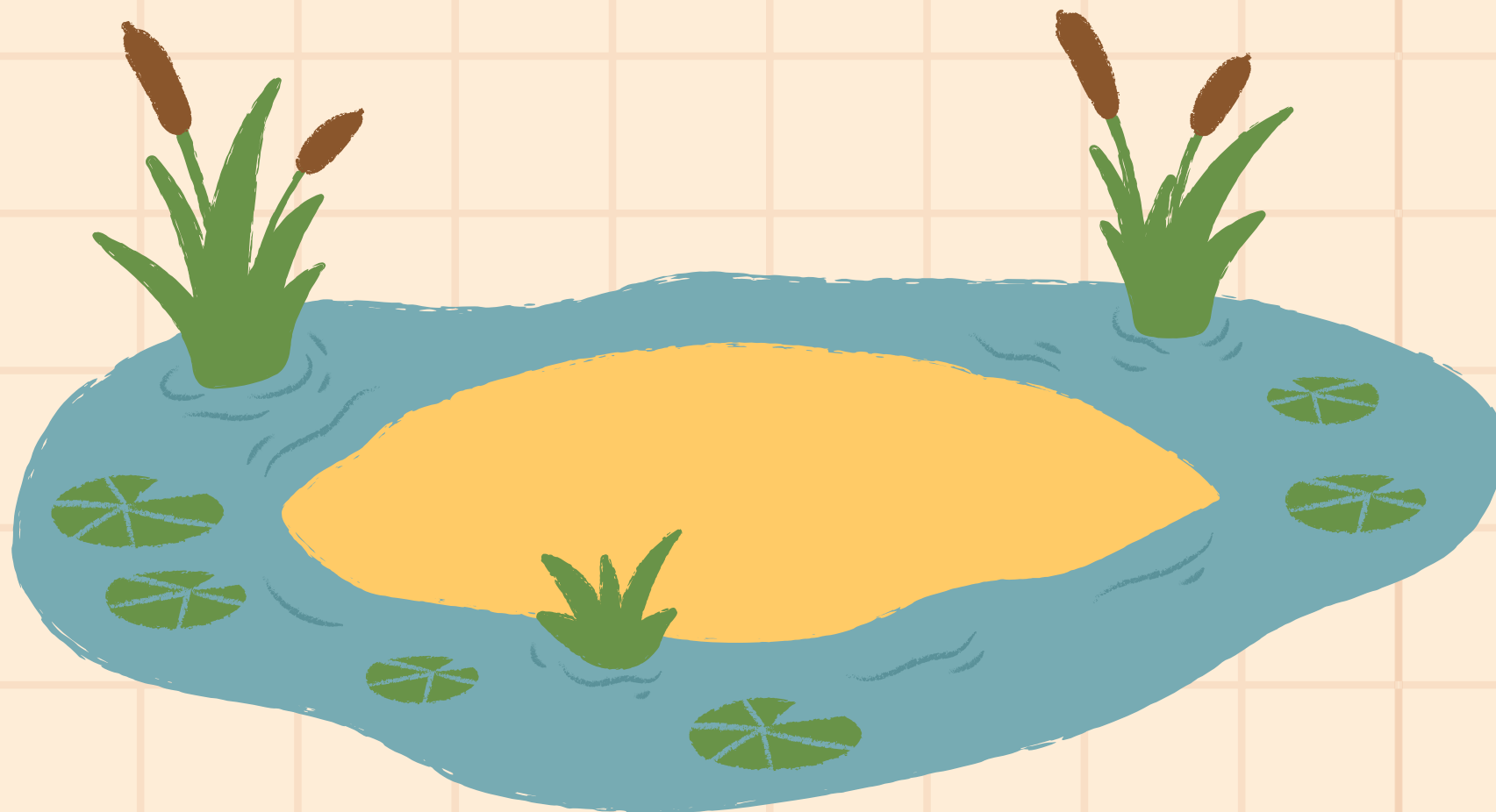
- \$26.7M+ in half yearly purchase volume (JAN-JUN 2024)

Proof Points/Validation:

- PO data analysis
- Email communications with mentors and procurement

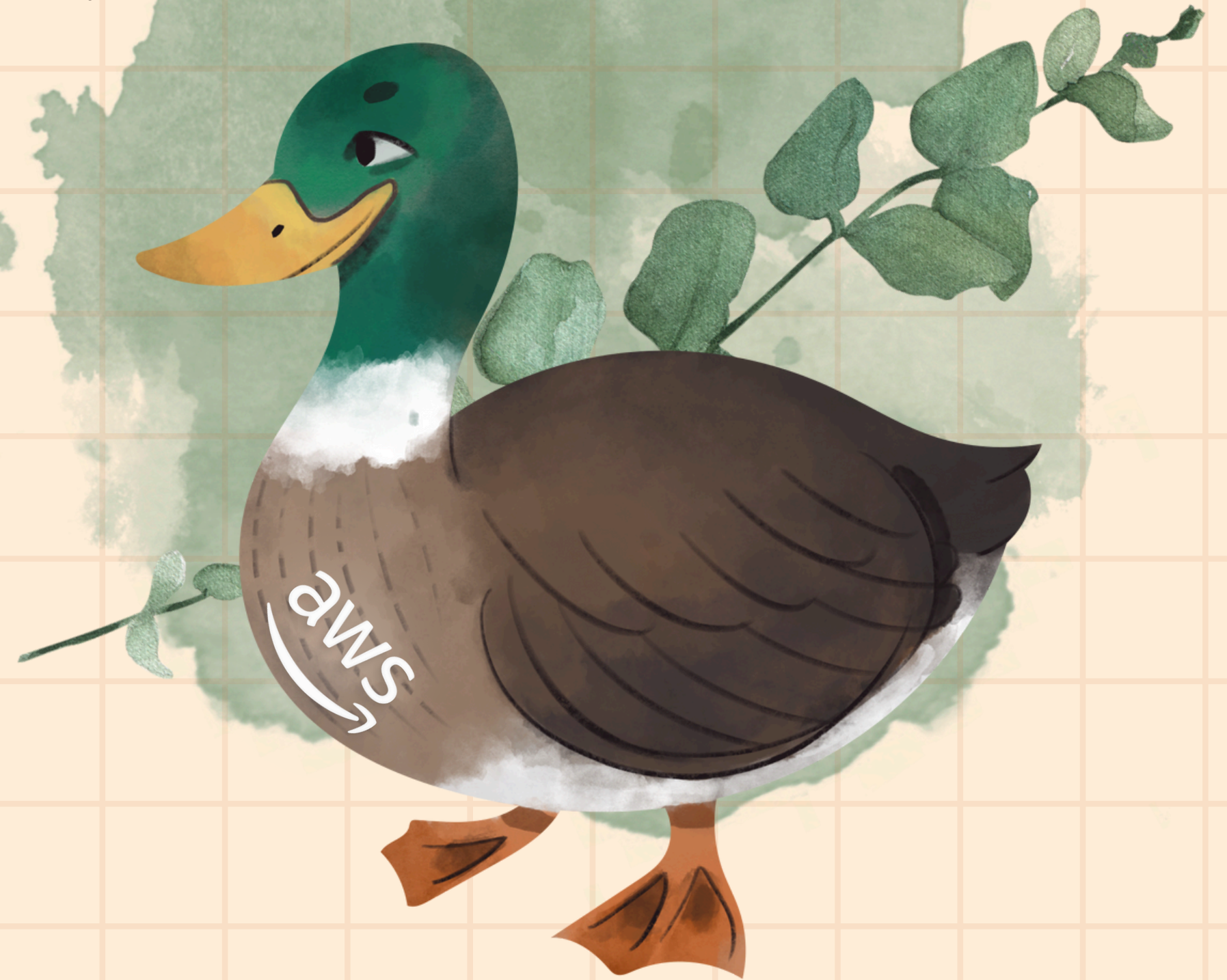
Why Now?:

- State mandates pushing compliance
- Internal push for inclusive, transparent procurement
- Chance for Cal Poly to lead in supplier equity



⚡ BIAS 4 ACTION

- Extreme Programming: Amazon Q
- Fast Scale: Lambda
- Infra as Code: AWS SAM
- Data & AI:
 - Storage: S3 bucket
 - Amazon Bedrock: Claude Sonnet 3.5
 - RAG: DynamoDB
- UI: Streamlit



DEMO!



NEXT STEPS

Reach >25% small business POs:

- Match with new small suppliers
 - Not just current ones
- Increase outreach efforts
 - Old Dominion University's SWaM report

- Gather more data (for model training)
 - More model validation/testing
 - Improve guardrails
- Integration with existing procurement systems
 - Change frameworks
- Authenticate with Cal Poly SSO
- Evaluate solution efficiency
 - Get client feedback
 - Ideally, optimize for both price and supplier diversity



SUMMARY

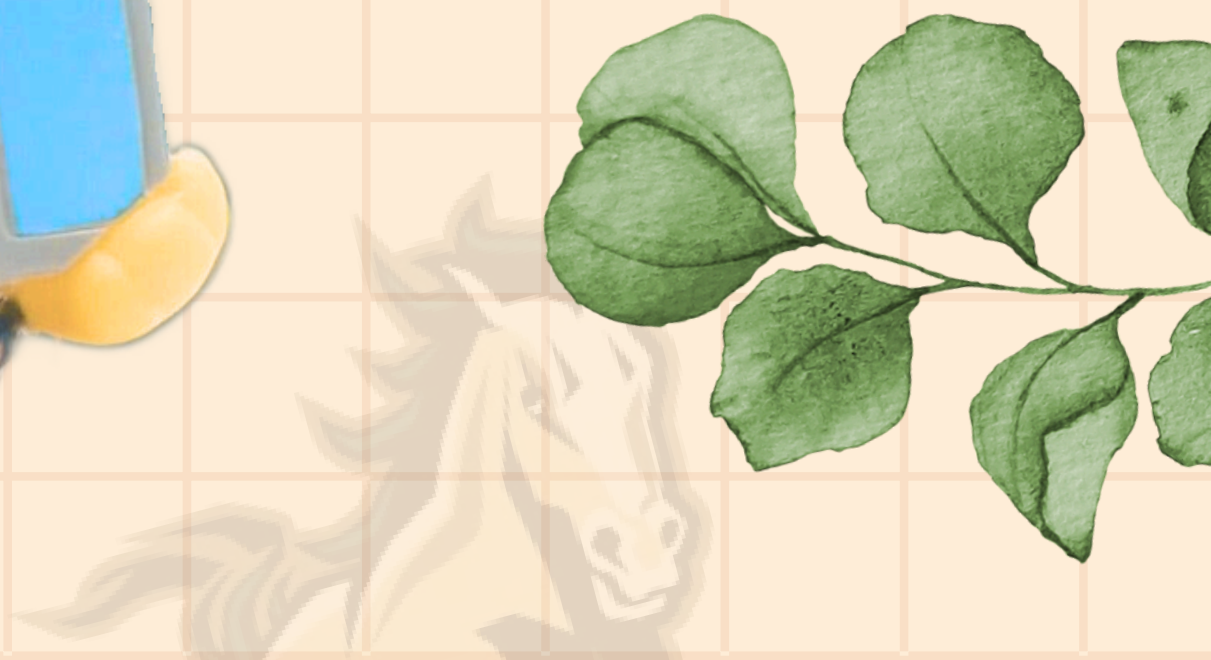
- Why the name Duckling?
- How are we helping both Cal Poly Staff and small businesses?





THANK

YOU



CONNECT!

