

The Energy Venture Investment *Summit*



THURSDAY, FEBRUARY 17
3:45 PM (MT)

CORROLYTICS



NABORS

HAYNES BOONE



MOSSADAMS



GARY CLIMATE SOLUTIONS



City of
Golden





The SMART Test Kit for Detecting and Monitoring Microbial
Corrosion created for the Oil and Gas Industries

www.corrolytics.com | a.sadek@corrolytics.com

Microbial Corrosion is a costly problem for the oil and gas industry



- ▶ 2.8 Million miles of pipelines
- ▶ Annual Financial impact to pipeline corrosion exceeds \$10 Billion Dollar Impact associated with Microbial Corrosion



- ▶ Difficult to connect between microbial growth and corrosion



- ▶ Fined heavily by DOT



Testing is absolutely critical to preventing this issues

Current testing and monitoring methodology does not give our customer gives the information they need.

Current Methods Fall Short



MIC

Current Methods Fall Short



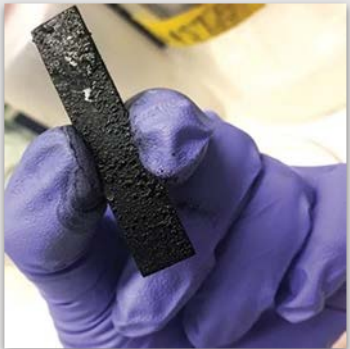
Test kits
(5-15 days)
Presence of
microbes does not
mean corrosion

MIC

Current Methods Fall Short



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Coupon left in pipeline
(3 months – 1 year)
Challenging Installation
& limited usability

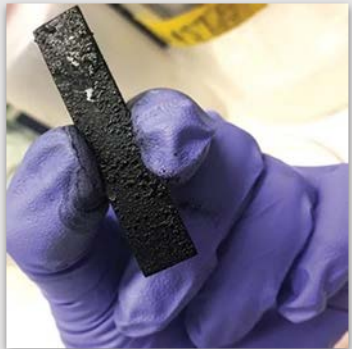
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Lab Testing
(5-14 days)
Outdated &
Subjective reports



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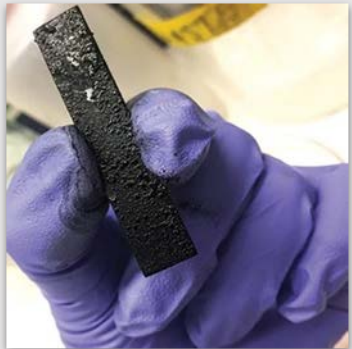
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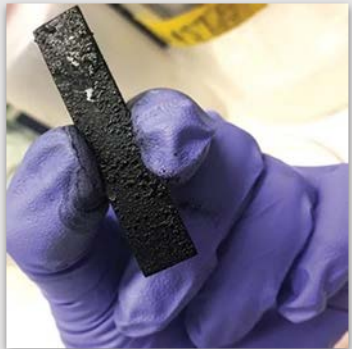
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Unnecessary dumping of chemicals

Ongoing trial
and error to
detect microbial
corrosion





Enter Corrolytics MIC Kit

Corrolytics is a real-time, on-site solution poised to disrupt the industry!



- ▶ Detect and Differentiate between microbial and other types of corrosion
- ▶ Based on electrochemical technology
- ▶ Provides On-site and accurate information
- ▶ Integrated AI technology software
- ▶ Full Patent Pending

Customer ROI

Corrolytics creates new efficiencies and cost savings. Our technology will allow operators to mitigate biotic corrosion before the integrity of the asset has been compromised.



Prevent unnecessary
chemical treatment
saving them up to
\$1M/year



Reducing
unnecessary
monitoring cost
by 50%



Minimize asset
loss and business
disruption loss

Don't just take our word for it . . . (300+ Customer Discovery Interviews)



"MUST HAVE TECHNOLOGY"

"Differentiating MIC from other types of corrosion is a million-dollar question."



"The current technology indicates the presence of microbes, but microbes are everywhere and that doesn't necessarily mean corrosion."



" I think we need something that is easy to use on-field and the person shouldn't need microbiology expertise to interpret the results."

Addressable Market Size and Opportunity



\$9 Billion/year

Global Demand in MIC
monitoring and mitigation
Total Available Market
As of 2020

\$3.89
Billion/year

MIC is seen in
Upstream/Midstream
Served Available Market

\$3.1
Billion/year

80% "Must have
technology"
Target market

Go-To-Market Sales and Marketing Strategy

Strategic Alliance

Partner with DNV-GL, Hilcorp Alaska LLC and Occidental Petroleum Corporation

Direct Sales

Leverage existing relationships from our 300+ Customer Discovery contacts

In-lab Testing

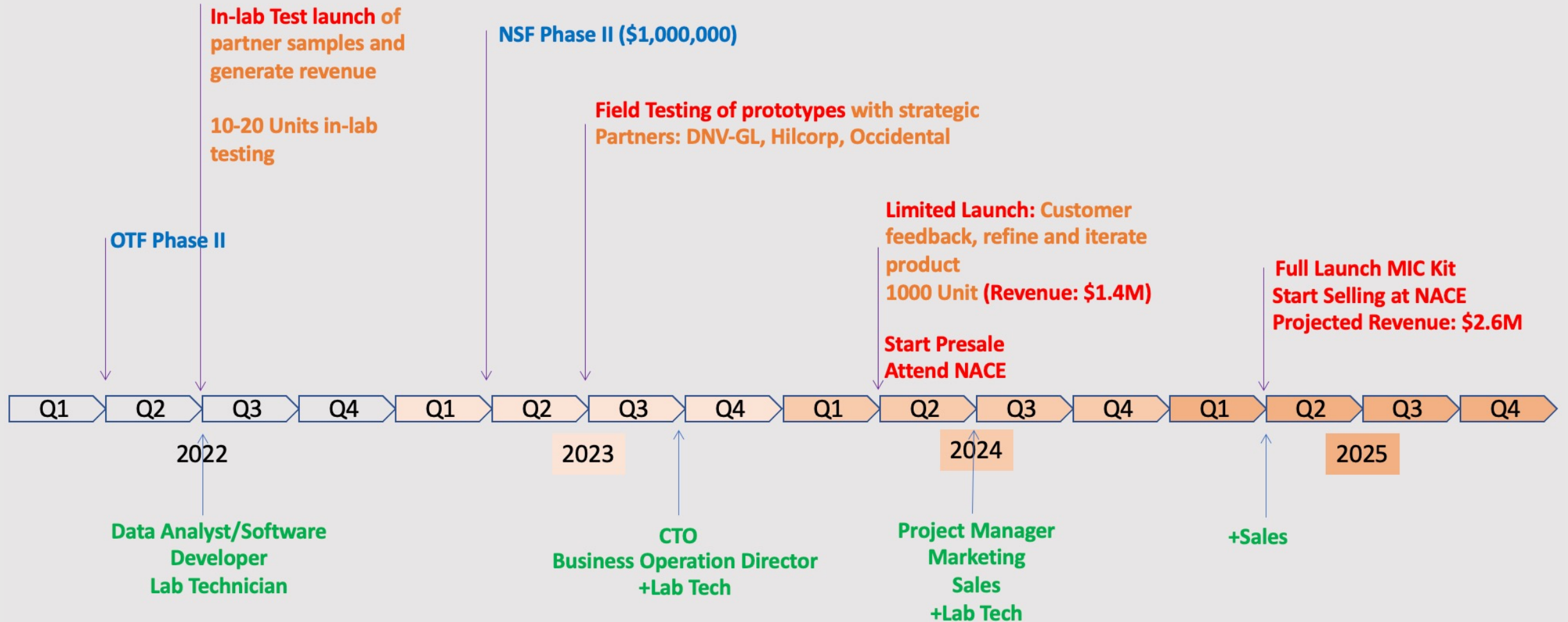
Marketing

Attend AMPP Conference

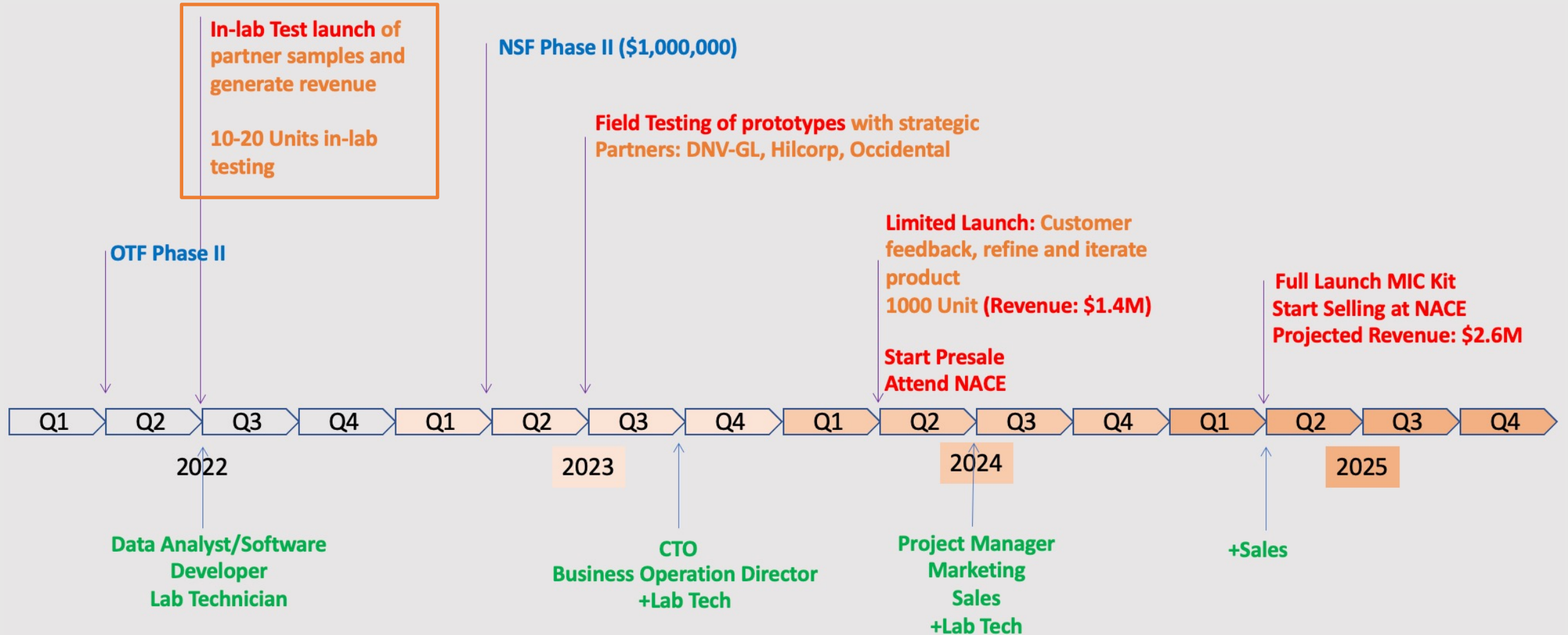
Corrosion Magazine Advertisement

Publish Case Studies and Research Journals

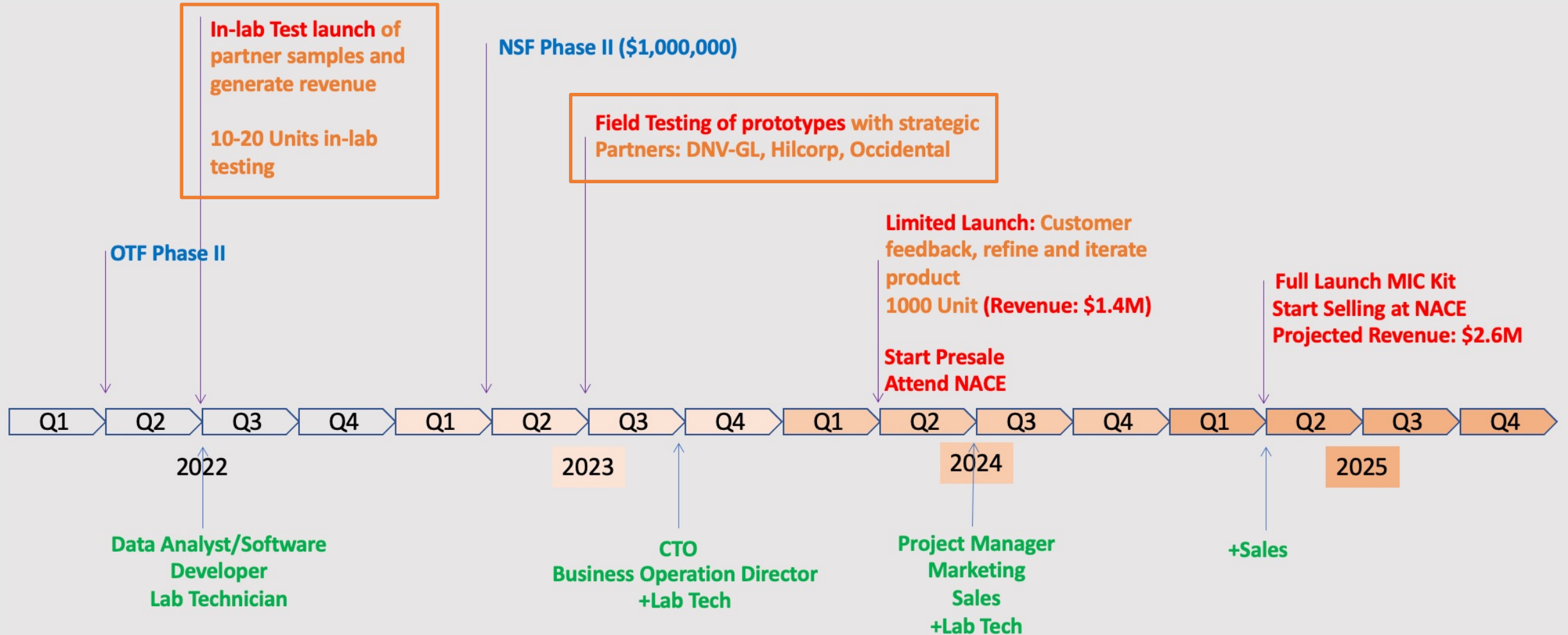
Go-To-Market Growth Projection



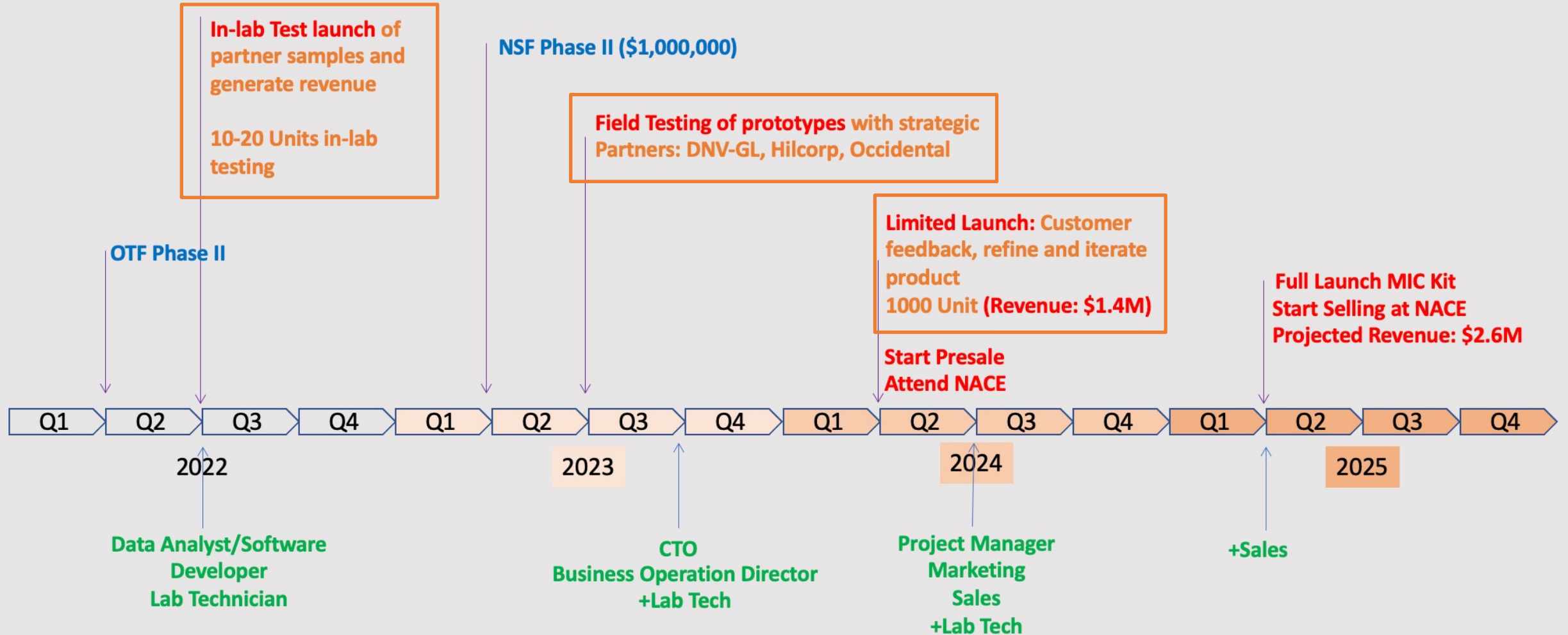
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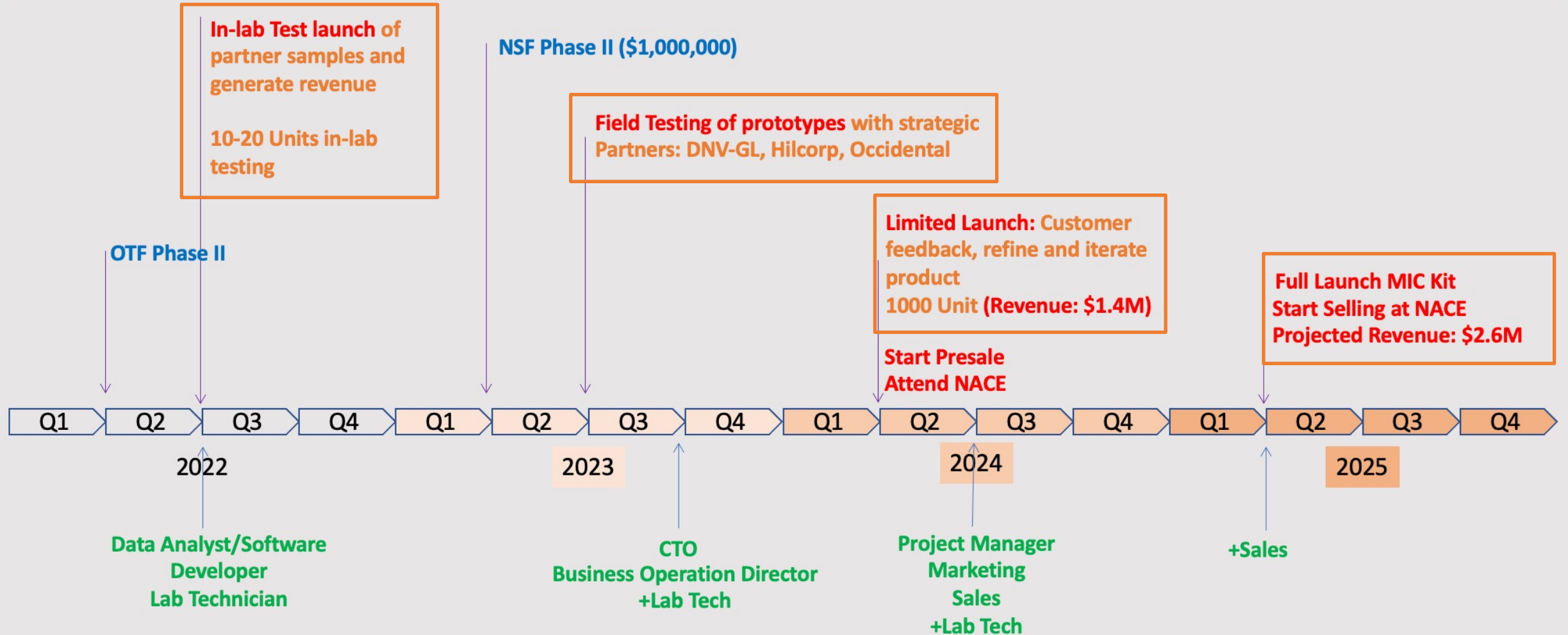
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Go-To-Market Growth Projection



Go-To-Market Growth Projection



Pricing Model

The average asset integrity manager will spend about \$250,000/year on Corrolytics MIC monitoring technology.



MIC kit
\$1,000 per kit
Consumable








Electronics
\$5,000 per
unit



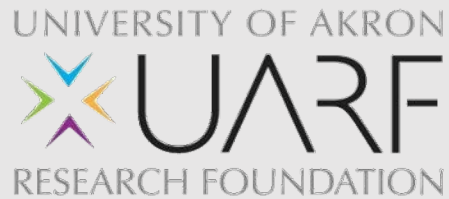
Software licensing
\$12,000
Yearly Subscription

Corrolytics Competitive Advantage

Company Name					
Product	MIC Monitor Kit	MIC Kit 3,4,&5	BioGeorge BG4	MIC Sampling and Test Kit	Sani-Check Kits
Determine Presence of microbes	Yes	Yes	Yes	Yes	Yes
Diagnose microbial Corrosion	Yes	No	No	No	No
Provide microbial Corrosion Rate	Yes	No	No	No	No
Evaluate Biocide Efficacy	Yes	No	Yes	No	No

Green: advantage Red: disadvantage

Strong Support from Tech and Innovation Partners in Ohio



Achievements

Completed NSF I-Corps with 300+ Customer
Discovery

Secured NSF SBIR Phase I Award

Awarded TechConnect Innovation Award 2021

Won MAGNET MSPIRE 2021 Pitch
Competition

CORROLYTICS™ Team



Anwar Sadek
CEO, Co-Founder



Sai Prasanna Chinthala
COO, Co-Founder



Chelsea Monty-Bromer, PhD
Scientific Adviser and Co-
Founder



John M. Senko, PhD
Adviser and Consultant



Jim Griggy
Business Adviser



John Anerousis
Technical and
Business Mentor

Need Funding of \$500,000

Milestone 1

Prototype for In-lab Test
Software Development Phase I
Operations Cost
Equipment Cost

Milestone 2

MVP Completion
Software Development Phase II
Field Test
Chief Technology Officer
Business Operations Director

Ready to Sign Contracts

Milestone 3

Software Development Phase III
Limited Launch 1000 Units

Milestone 4

Full Launch of MIC Kit

2022

2023

2024

2025

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Thank you

CORROLYTICS™

For more information, contact:
Corrolytics Founder and CEO, Anwar Sadek

a.sadek@corrolytics.com | www.corrolytics.com | Cell: (412) 980-8129

Financial Projections

	3Q	4Q						
Income Statement <i>Thousands \$</i>	2022	2022	2022	2023	2024	2025	2026	2027
Sales Units	4	12	16	56	1,142	2,220	4,376	8,688
Sales Dollars	\$ 12	\$ 36	\$ 48	\$ 136	\$1,598	\$3,003	\$5,814	\$11,436
Gross Profit <i>% of Sales</i>	\$ 11	\$ 34	\$ 45 94%	\$ 129 95%	\$1,232 77%	\$2,283 76%	\$4,385 75%	\$ 8,589 75%
SGA Costs <i>% of Sales</i>	\$ 93	\$108	\$ 200 418%	\$ 616 453%	\$ 950 59%	\$1,287 43%	\$1,500 26%	\$ 1,539 13%
Operating Income <i>% of Sales</i>	\$ (82)	\$ (74)	\$(156) -324%	\$(487) -358%	\$ 282 18%	\$ 995 33%	\$2,885 50%	\$ 7,050 62%
Net Income <i>% of Sales</i>	\$ (82)	\$ (74)	\$(156) -324%	\$(487) -358%	\$ 282 18%	\$ 809 27%	\$2,039 35%	\$ 4,982 44%
Cumulative Cash Flow	\$301	\$224	\$ 224	\$ 876	\$1,066	\$1,809	\$3,755	\$ 8,491
Number of Employees	5	5	5	8	11	15	15	15

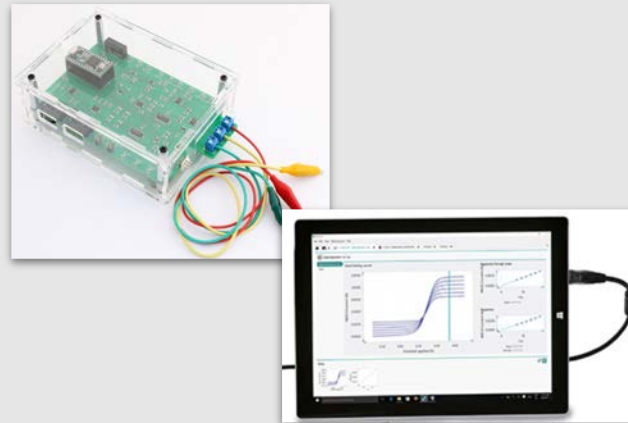
Pricing Example

If an Asset Integrity Manager overlooks around 50 miles of Pipelines

If needed to check every 2 miles, in triplicates and 4 times a year,



300 Kits
Spending: \$300,000



25 Units
Spending: 125,000



Software
\$12,000
Yearly Subscription

Use of Funds

