

The Size of the Prize







Replaces 8 million liters toxic chemicals used annually in DK alone

Halophilic Biocide



Replaces 4 million liters toxic chemicals used annually in DK alone

Green Corrossion Inhibitor



Replaces 3 million liters toxic chemicals used annually in DK alone

Commercialization Strategy:

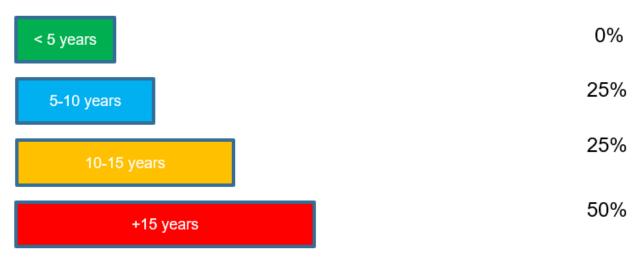
Increase <u>speed</u> and <u>probability</u> of application

Application Readiness = Commercialization





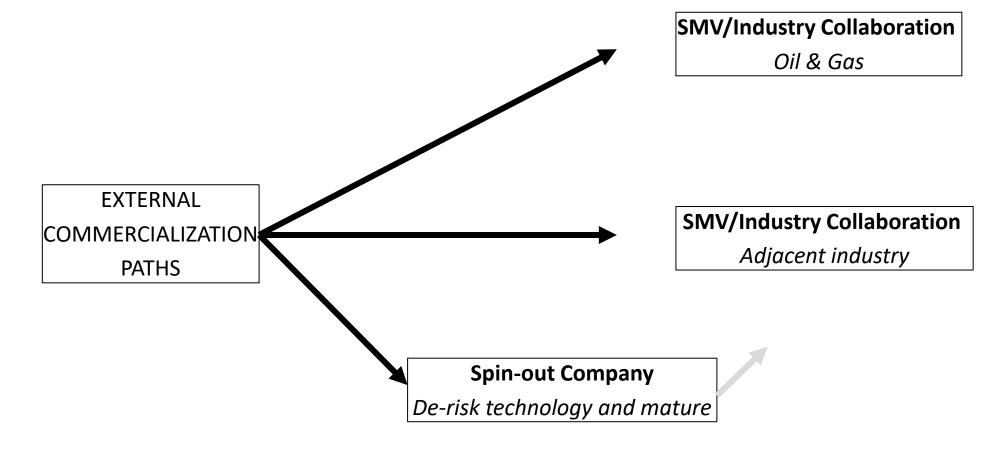




* Source: Gross et al. 2018, How long does innovation and commercialisation in the energy sectors take? Energy Policy, Elsevier

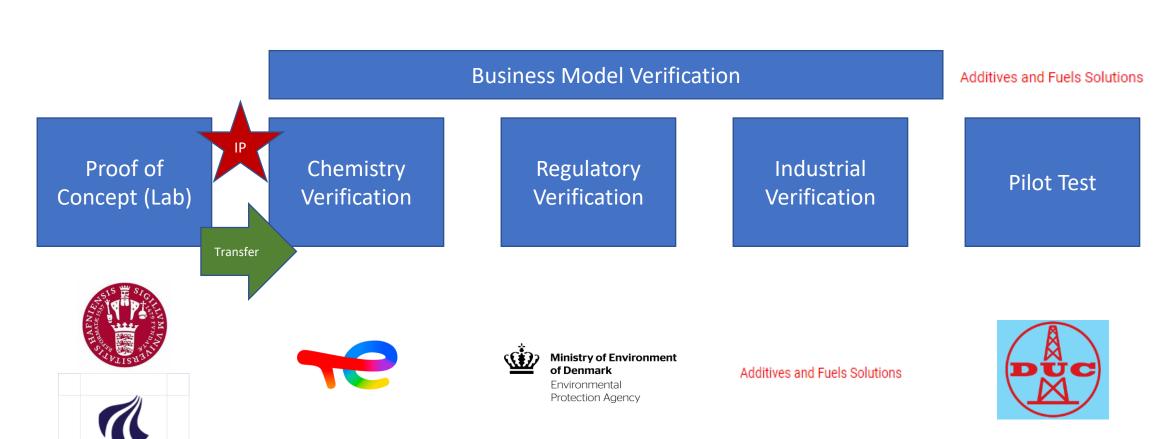
Pharmaceutical industry – 15-17 years

Three Paths



Commercialization Steps

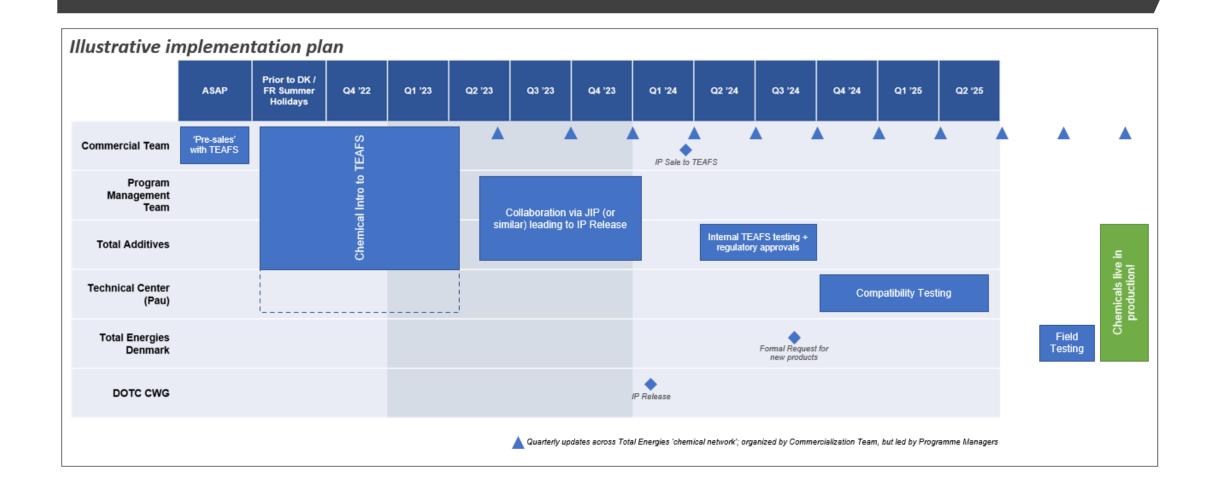
AALBORG Universitet



Green H2S Scavenger

Work Package	Task	Estimated time (weeks)	Planned completion date	Actual completion date
IP	Notice of invention draft	4	-	02-03-2022
	Novelty search	12	-	04-05-2022
	Determination of inventors	6	-	27-07-2022
	Patent application	12	15-03-2023	
	Inform DUC of NOI	1	24-01-2023	
	1st right of refusal invoked/relinquished	4		
	Negotiate IP rights	12		
Research	Application Workshop	1	27-09-2022	
	Stage gate 2	1	15-11-2022	
	Application Workshop	1	01-09-2023	
	Stage gate 3	1	01-10-2023	
Chemical Validation	Send chemical sample to TEAFS & TE Pau	1		
	Validate functionality	6		
	Validate EIF score	6		
Regulatory	EIF, ecotoxicity tests	6	01-11-2022	
	MSDS	1	08-12-2022	
	Certification and regulatory approval	6		
	Danish Governmental approvals	12		
Production	Synthesize industrial process	3		
Field trials	Reservoir fluid compatability testing	12		
	Steel compatability testing	12		
	Topside compatability testing	12		
	Refinery compaitibilty testing	12		
	Full scale trial	3		

Timetable



Challenges



IP ownership



Internal industry chemistry validation

Does the chemistry work?

Does it mess up downstream process?



Production facilities



Pilot test