CELTIC SEA PROPOSED OFFSHORE FLOATING WIND

- WHERE WE ARE
- NEXT STEPS
- FUTURE CHALLENGES

SWFPA
The Scottish White Fish Producers Association Ltd

ORIGINAL AoS 4000Km2

REFINED AoS 1500Km2

FURTHER REVISION 2023

DEC 2020

INITIAL INVITATION FOR VIEWS

Invitation to market for views on how best to accelerate the development of floating wind in the UK

Input from **over 30** interested market participants across industry

Responses received confirmed strong capability and appetitive for floating wind, and helped refine our proposition from 1GW to 4GW

DEC 2020 - NOV 2021

ONGOING INFORMAL ENGAGEMENT

Bilateral engagement with market and other marine stakeholders to shape plans and thinking

NOV - DEC 2021

SPATIAL DESIGN AND DATA QUESTIONNAIRES

Questionnaires issued to **over 150** stakeholders requesting:

Input on spatial design from marine and market stakeholders

Datasets to support spatial modelling and flag any risks to existing seabed users and interests

FEB 2022

MARINE STAKEHOLDER WORKSHOP

Online workshop to explain how spatial design approach responded to stakeholder feedback

The workshop was attended by **over 70** individuals from c.30 organisations

Explored data weightings which directly informed the way we have used data in our spatial modelling, which resulted in the Areas of Search

FEB - JUNE 2022

ENGAGEMENT TO INFORM SPATIAL AND TENDER DESIGN

Informal engagement to refine spatial modelling work and identify other significant factors, including the environment, navigation, fisheries, aviation, and defence

MAY - JUNE 2022

PRE-CONSENT SURVEYS ENGAGEMENT

Over 50 developers invited to share their views on datasets, methods, standards, and areas of focus that will accelerate delivery as much as possible

JULY 2022

AREAS OF SEARCH

Establishes areas of seabed that will be taken forward into plan-level Habitats Regulations Assessment (HRA) and grid infrastructure

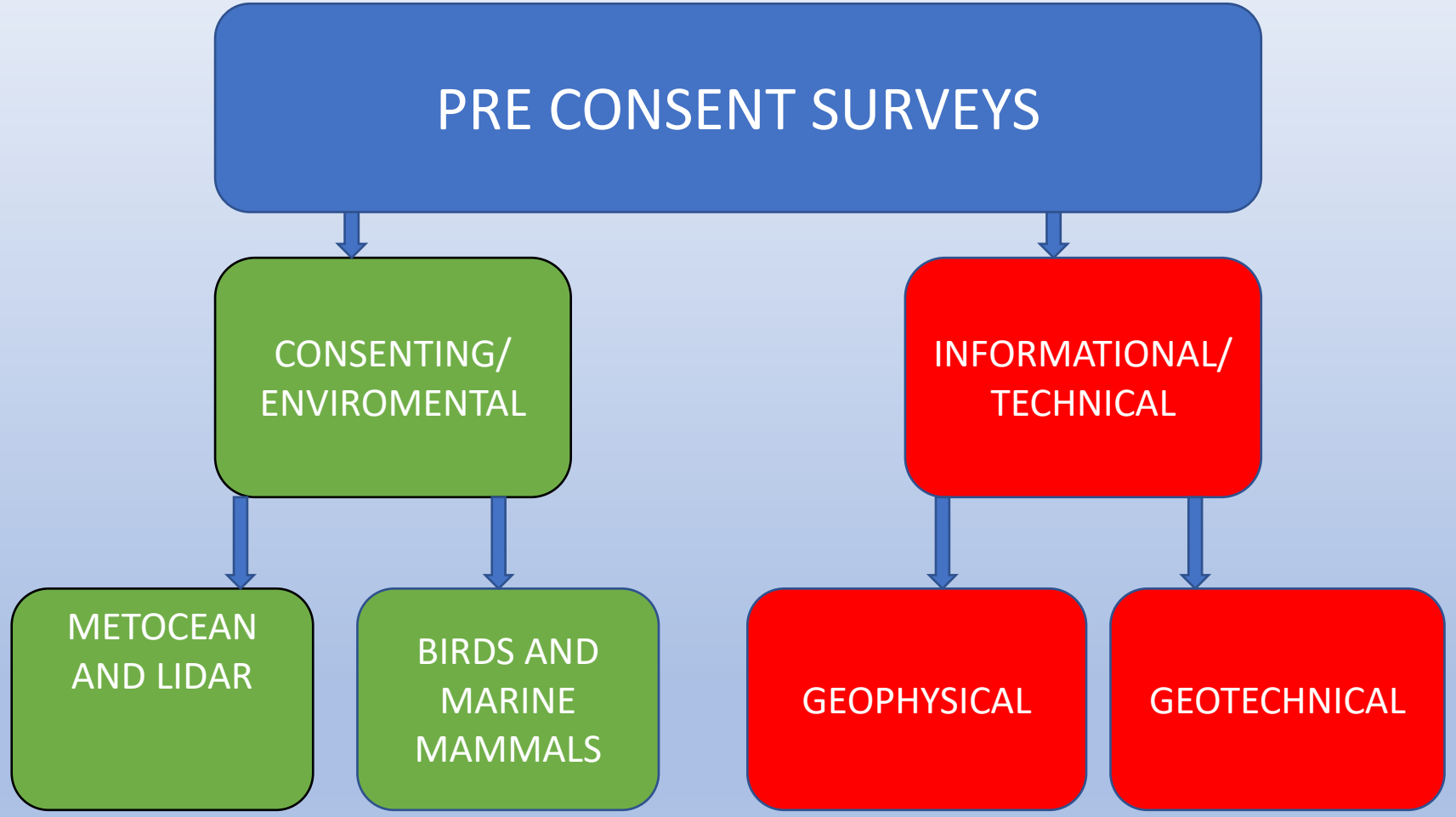
JULY 2022 - SPRING 2023

ENGAGEMENT TO INFORM DEFINITION OF PROJECT DEVELOPMENT AREAS

Targeted engagement undertaken to further understand project risks, refine Areas of Search and inform the definition of Project Development Areas

KEY: Market | Marine | Happening now

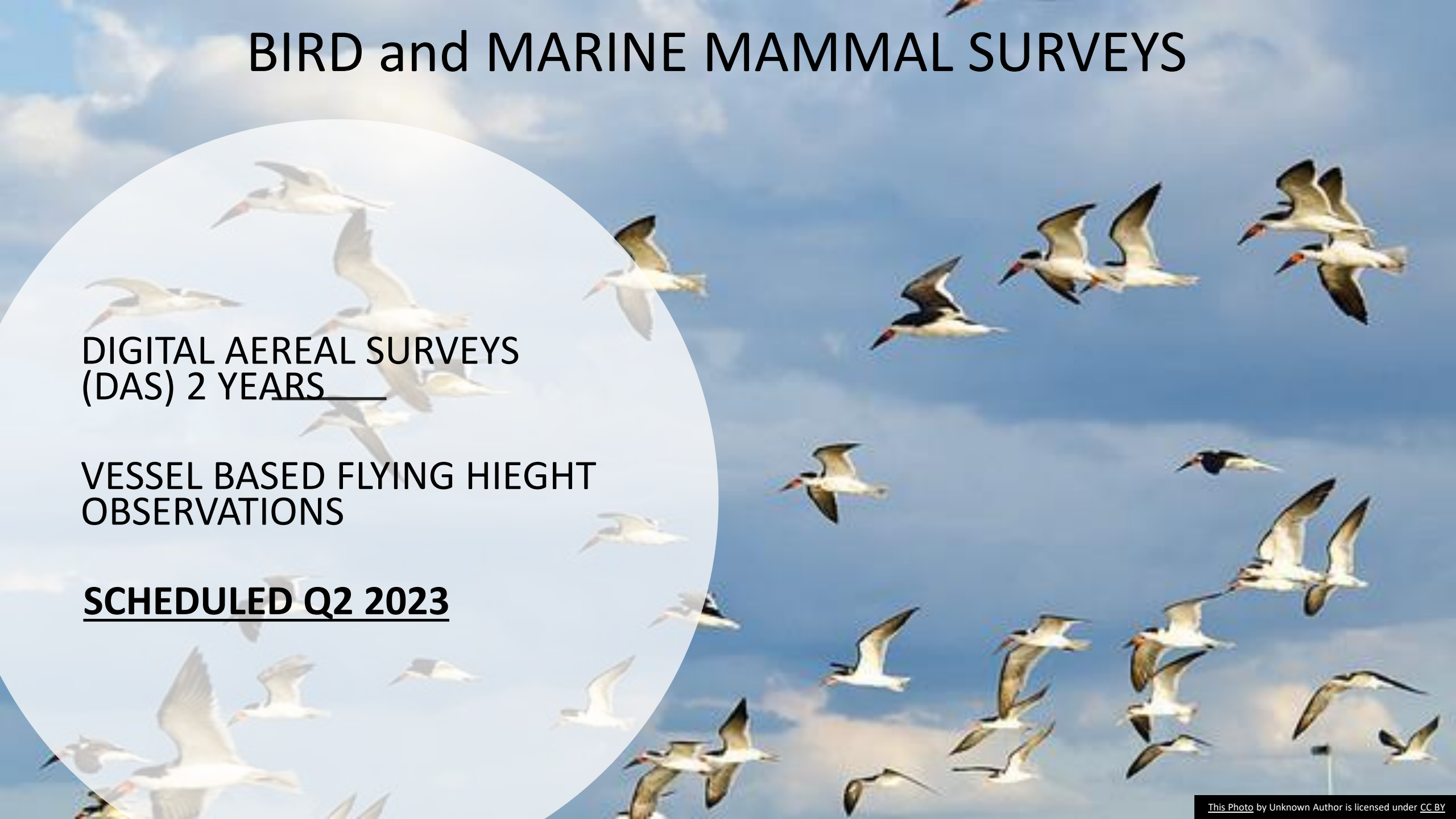
NEXT STEPS


PRE CONSENT SURVEYS
CONSENTING/ ENVIROMENTAL
INFORMATIONAL/ TECHNICAL
METOCEAN AND LIDAR
BIRDS AND MARINE MAMMALS
GEOPHYSICAL
GEOTECHNICAL

METOCEAN and FLIDAR

- UP TO FOUR DEPLOYMENT AREAS SUBJECT TO FINAL DEVELOPMENT PROJECT AREA (PDA) LOCATIONS
- **SCHEDULED 12 MONTHS MID 2023-MID 2024**

BIRD and MARINE MAMMAL SURVEYS



DIGITAL AEREAL SURVEYS (DAS) 2 YEARS

VESSEL BASED FLYING HIEGHT OBSERVATIONS

SCHEDULED Q2 2023

GEOPHSYICAL SURVEYS

- MULTIBEAM ECHOSOUNDER
- SIDE SCAN SONAR
- SUB BOTTOM PROFILER
- 2D ULTRA HIGH RESOLUTION SIESMIC
- MAGNOMETER
- GROUND TRUTHING GRABS

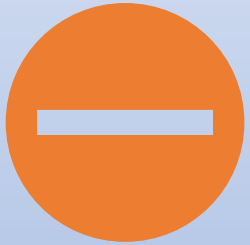
- **SCHEDULED Q2 2023**

GEOTECHNICAL

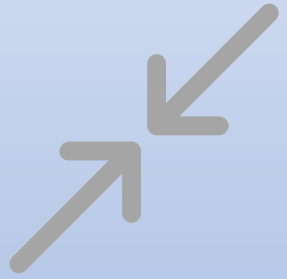
- SEABED CORE PENETRATION TEST (CPT)
- VIBRO-CORING
- THERMAL TESTING

SCHEDULED Q3 2023

Fisheries Impacts from Offshore Wind Farms



AVOID



REDUCE

MITIGATE

AMBITION FOR CO-EXISTANCE

EARLY ENGAGEMENT

COMMUNICATION

LESSONS LEARNED

ENGAGEMENT PROCESS

Fishing Industry Should Be Involved At The Lease Option Process With Governing Bodies

Screening: Meet with consenting authority, is EIA needed for project?

Scoping: Preliminary analysis of project impacts submit a scoping report to consenting authority.

EIA: Detailed survey, modelling and stakeholder engagement to quantify potential impacts. Include mitigation in the project design to reduce impact.

ES & Consent Application: Prepare report of EIA, submit ES, consenting authority determines application.

Export Cable Routes

Early engagement prior to lease option.

Local knowledge from fishermen keeps disruption to a minimum and could potentially save the developers time and money.

Overtrawl verification a priority

Research into EMF for buried export cables and dynamic array cables.

THE PRECAUTIONARY PRINCIPLE

- HAS NOT BEEN IMPLEMENTED
- TOO MANY UNKNOWNS
- CUMULATIVE IMPACTS
- ECOSYSTEM AND THE MARINE ENVIROMENT

FUTURE CONSIDERATIONS

GRID CONNECTION	ALTHOUGH NO ONE HAS CONTROL OF THE GRID CONNECTION, ONCE KNOWN IT IS IMPERATIVE THAT THE EXPORT CABLE AoS IS AS WIDE AS POSSIBLE FOR FISHERS INPUT.
EXPORT CABLE ROUTE	CABLE ROUTES SHOULD MINIMISE ANY CABLE CROSSINGS OR PIPLELINE CROSSINGS TO MITIGATE THE AMOUNT OF ROCK ARMOUR ALONG THE ROUTE
MARSHALING PORTS	AS WIND TURBINES AND FLOATING PLATFORMS INCREASE IN SIZE MARSHELLING PORTS BECOME LIMITED IN CHOICE AND COULD POSE A PROBLEM
WET STORAGE	WET STORAGE OF FLOATING PLATFORMS BEFORE BEING TRANSPORTED TO THE DEVELOPMENT SITE WILL BECOME A HUGE PROBLEM FOR THE INSHORE FISHERS
CFLO and FIR ESSENTIAL	GOOD COMMUNICATION BETWEEN THE COMPANY FISHERIES LIASON OFFICER (CFLO) and THE FISHING INDUSTRY IS ESSENTIAL TO ALLOW A GOOD COMMUNICATION STREAM WITH THE FISHING INDUSTRY AND THE DEVELOPMENT

IF ONLY IT WAS THIS EASY

THE MISSING LINK WHO WILL BE THE SUCCESSFUL DEVELOPERS?

THANKS FOR LISTENING. ANY QUESTIONS