



COASTAL RANGER COMMANDO

TACTICAL BOAT DIVISION
John - Commanding Officer
Lieutenant Commander (DF-2)



TACTICAL BOAT DIVISION OPERATIONS

LARGE SPAN IN INTENSITY DURING OPERATIONS

PROLONGED PERIODS WITH HIGH FATIGUE

LIMITED COMFORT ON BOARD

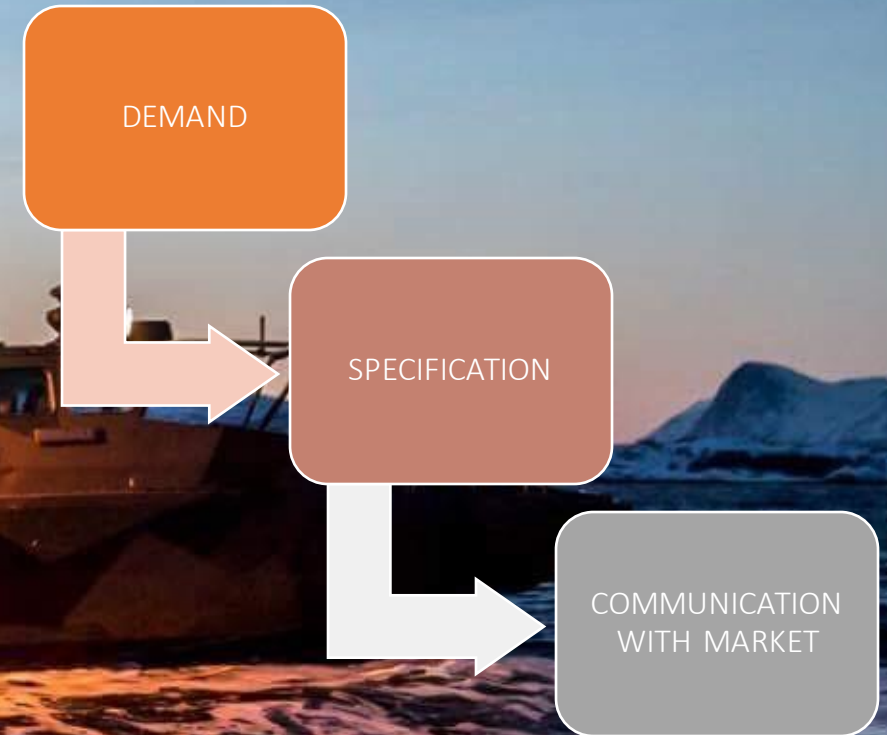
OPERATIONS RANGE FROM HOURS TO WEEKS

NOISE, VIBRATION, IMPACTS



THE PROCESS: INITIAL DEMAND

- REPORTS FROM 2001 AND 2016 POINTING TO UNHEALTHY IMPACTS, VIBRATIONS AND NOISE
- LITTLE TO NO PROGRESS UNTIL 2018/2019 – TRIGGER EVENT: BROKEN BACK
- HEALTH, SAFETY AND ENVIRONMENT FOCUS



THE PROCESS: SPECIFYING THE NEEDS

- COMMUNICATION WITH OTHER SIMILAR UNITS (SOF)
- IDENTIFY WHAT YOU ARE LOOKING FOR – USER INVOLVEMENT
- SPECIFY THE FUNCTION – NOT THE SOLUTION!
 - E.g. HEIGHT/LONGITUDINAL POSITION ADJUSTMENT OF A SEAT

Do not spec	Spec
“Must have water jet” “Must be height adjustable” “Must be weight adjustable”	“Must be able to decelerate rapidly” “Must secure sightlines and reach for all operators” “Must not bottom out”



THE PROCESS: SPECIFYING THE NEEDS

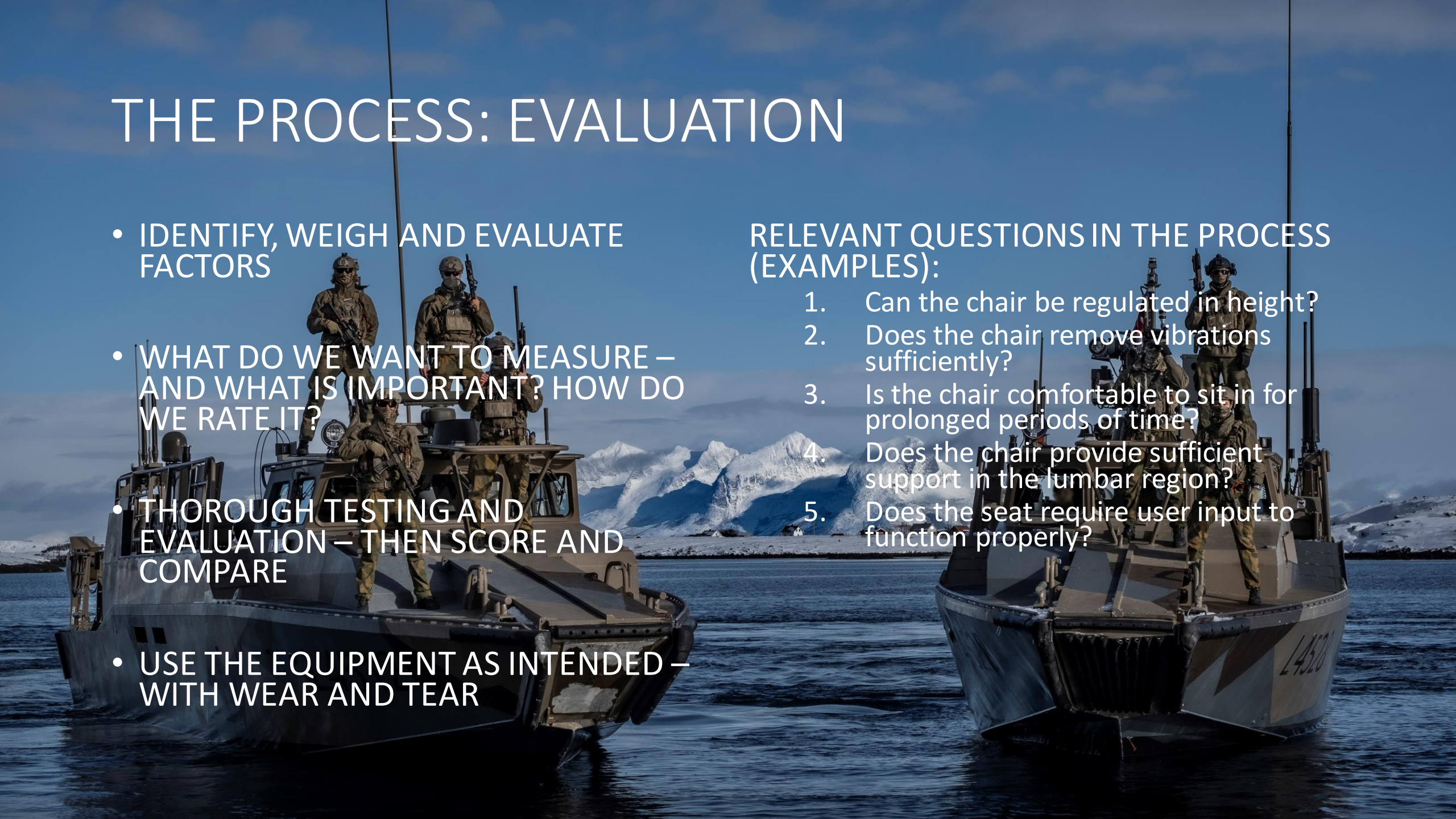


THE PROCESS: EVALUATION

- IDENTIFY, WEIGH AND EVALUATE FACTORS
- WHAT DO WE WANT TO MEASURE – AND WHAT IS IMPORTANT? HOW DO WE RATE IT?
- THOROUGH TESTING AND EVALUATION – THEN SCORE AND COMPARE
- USE THE EQUIPMENT AS INTENDED – WITH WEAR AND TEAR

RELEVANT QUESTIONS IN THE PROCESS (EXAMPLES):

1. Can the chair be regulated in height?
2. Does the chair remove vibrations sufficiently?
3. Is the chair comfortable to sit in for prolonged periods of time?
4. Does the chair provide sufficient support in the lumbar region?
5. Does the seat require user input to function properly?



THE PROCESS: IMPLEMENTATION AND AFTERWORK

- A SOLUTION IS DECIDED – MAKE FINAL ADJUSTMENTS AND PLAN FOR IMPLEMENTATION
- USER INPUT IS PARAMOUNT
 - EXAMPLE: INCREASE HEIGHT OF SEATS ON CB90 BRIDGE
- FOLLOW-UP WITH MANUFACTURER – ADJUSTMENTS, MAINTENANCE, PROBLEMS ETC.

OUR KEY TAKEAWAYS

- HSE FOCUS TO GAIN TRACTION
- THE VALUE OF USER INPUT
- MIDLIFE UPDATE 2015 – SEATS SHOULD HAVE BEEN UPGRADED
- IMPORTANCE OF TESTING, EVALUATION AND COMPARISON CANNOT BE UNDERSTATED



QUESTIONS