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# Current technologies I use

#### Globe

- Great for fishing
- Very user friendly
- Common among fleet

#### Olex

- Not user friendly
- Bottom mapping
- AIS tracking
- Bottom hardness
- Font to small to name boats

#### Nav Net – (Pleasure boats)

- Not ergonomic controller base, not mouse
- Used as backup only

#### Wish List: Obtain Time Zero in shipyard March 2023

- Weather overlay feature
- Very user friendly

### Nav Tech hurt/help operator experience

#### Hurts

- Overwhelmed with data
- Too reliant on computer
  - Forget basic charting

#### Helps

- Single source of information
- More information at my finger tips
- Enhanced decision making process

# Future advantages challenges in an automated bridge

#### Advantages

- Single data source
- Overlays (weather/current tide)
- Easy to find bottom, hardness, Doppler

#### Challenges

- Getting high quality, reliable internet @ sea
- Not build for Bering Sea marine environment
  - No rack set up
- Inefficient hands-on support
- Menu navigation

## Desired improvements to Nav technology -Communication

#### **High Speed Internet**

A must

#### Simplify navigation screens

• Click down menu options

#### Bering Sea marine environment computer friendly systems

• Handle power surges/vibration

#### **Duplicity**

• Wired & wireless

#### App based trawl wheelhouse

• Single based solution

#### Voice typing ability

• Cannery/ Weather etc.

#### Online compliance training

• Where possible

#### Sea state closures tab

Updates

#### Pac Trax

• On nav chart

### Best systems for highspeed applications

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Hinders of poorly set up bridge with use of navigational equipment

No dedicated computer area

No one stop shop diming dials

Inappropriate size monitors

Most bridges not customized for modern technology

Electronic chart usage challenges

Font too small

Bad color contrast

Not user friendly

Look out the window!



Top 5 Nav equipment features I utilize

Doppler

Door sensors

Sonar

Bottom/Net sonar

Globe computer

What maritime industry technologies can transfer to another segment to maximize efficiencies

• 5

### Ergonomics key learnings from video games

Chair backrest angel Chair height Arm rest & seat cushion Lighting Monitor height & tilt Monitor distance Mouse placement Foot rest Good Posture!



### Conclusion

- Safely First
- Bycatch avoidance
- Operate efficiently & get my crew & federal observer back to their families
- Feed the world with sustainable wild Alaskan pollack
- Keep my boss happy!





