

FISHERMEN LED INJURY PREVENTION PROGRAM: AN EXAMPLE OF COMMUNITY-BASED PARTICIPATORY RESEARCH

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Photo: NIOSH



Oregon State
University

It all began with the funding announcement...

- **Dungeness crab fleet** highest risk in the Pacific Northwest
- Industry/worker **participation**
- **Gatekeepers** for commercial fishermen
 - Oregon Sea Grant

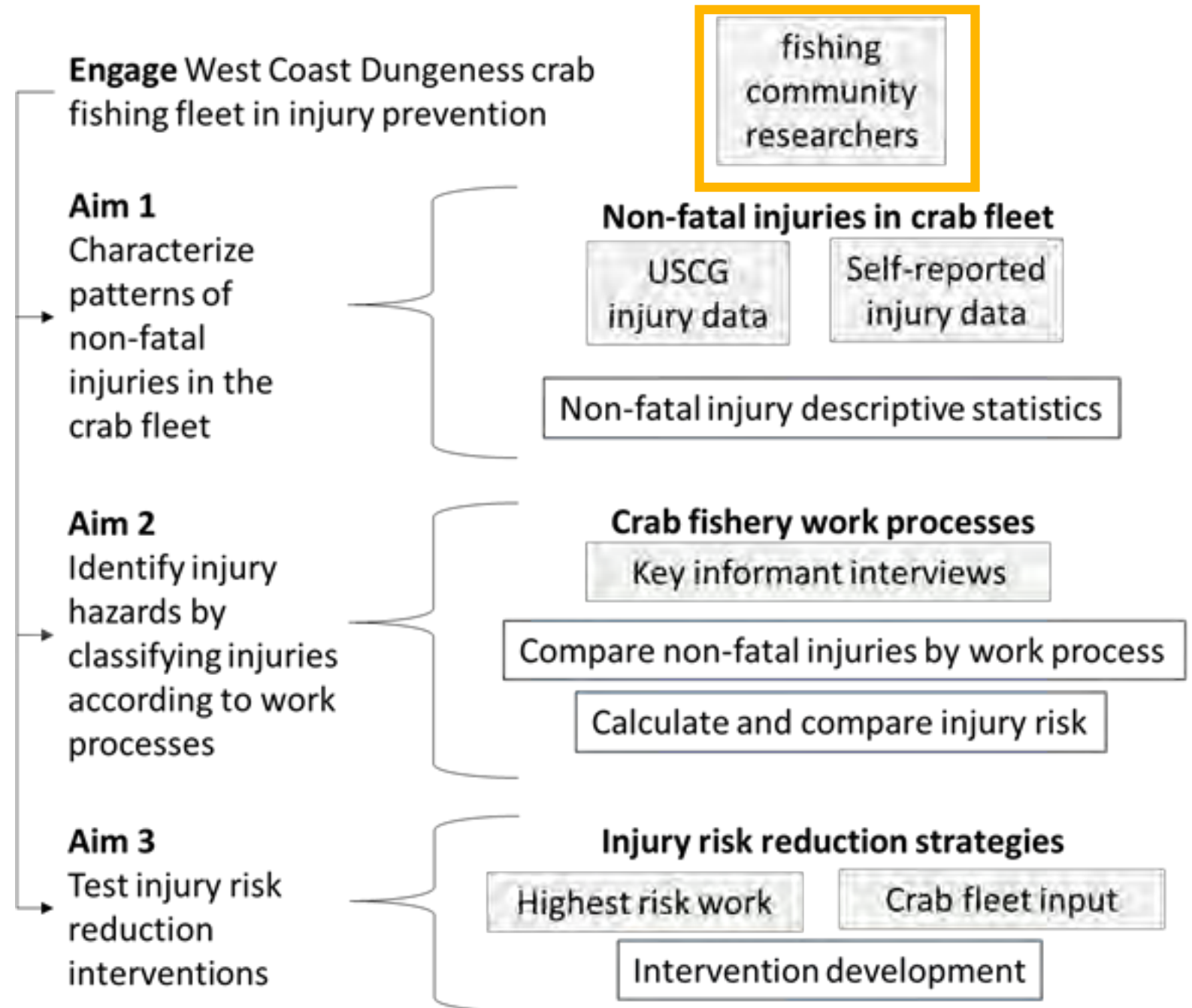
What fishermen will tolerate/perceive benefit with

- Marine Science Researchers

Community researcher approach

Interdisciplinary
team came up
with research
design:

Public Health +
Sea Grant





Community Researchers in key fishing ports along the West Coast.



Fall 2015

Who are they?

- 15 community researchers (CRs).
- Interacted with the commercial fishing industry in various capacities
 - Wives/girlfriends/friends.
 - Fish observer
 - Journalist
 - Marine Insurer
 - Fish/Wildlife researcher
- In-person interviews



Community Researcher Contractor Application

Before completing this application please review the full job description. If you have questions about this position please contact:

Kaety Jacobson

2.) Explain your current connection to the fishing industry:

Participation

In person meetings & monthly phone calls

Many emails and one-on-one phone calls

Mailings and convenience meetings along coast

Basic “job” description:

- complete training on human subjects’ protocols,
- develop outreach/engagement strategies specific to research activities,
- collect primary data from fishermen,
- provide input on the project.

Community Researcher Activity Timeline

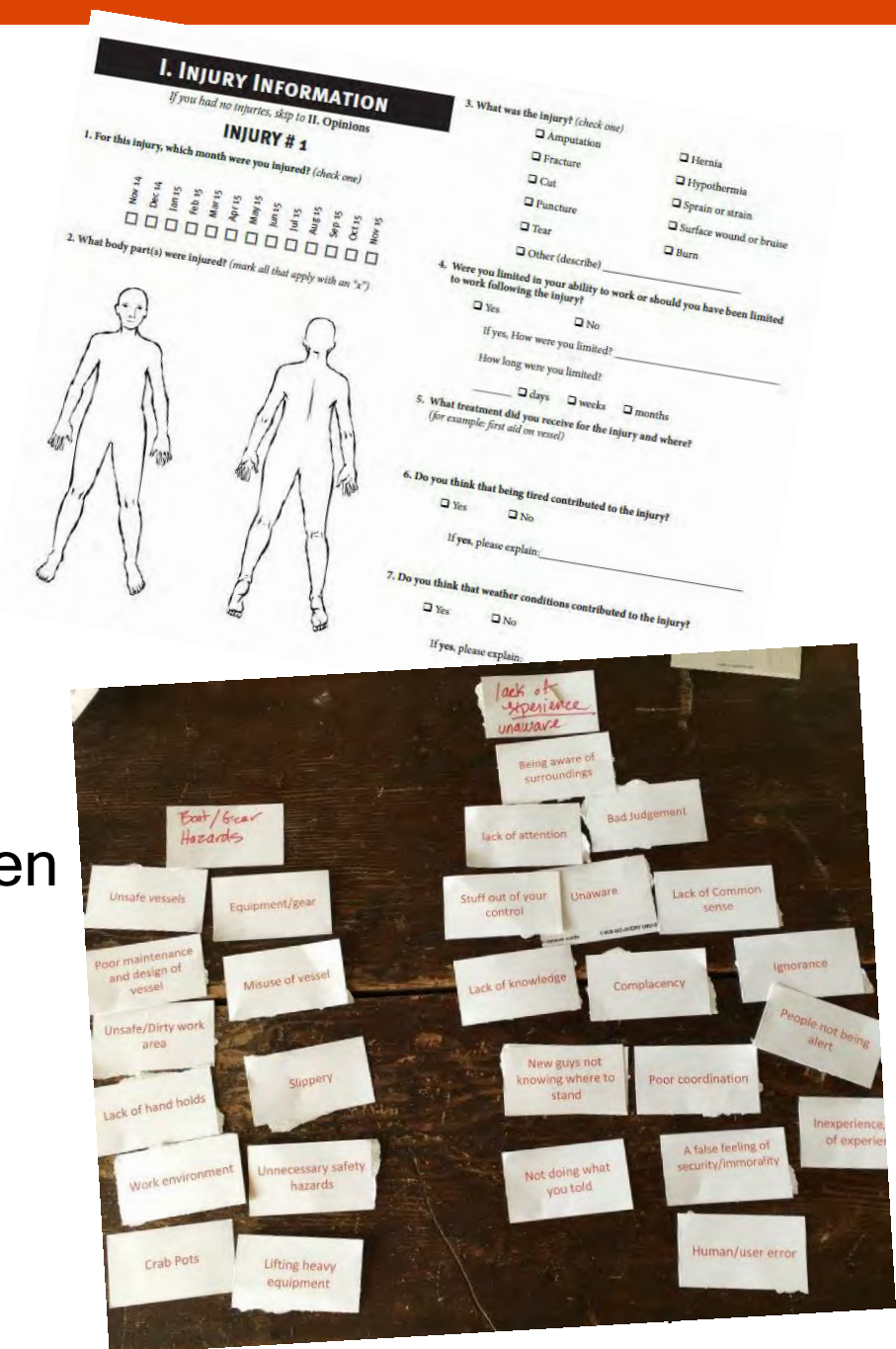
April 2015 meeting:

- ✓ Background and introduction to FLIPP
 - ✓ Basics of occupational safety and health
 - ✓ Protection of human subjects training and certification
 - ✓ Reviewed USCD injury data and planned focus groups
 - ✓ Basics of outreach and education with the fishing industry
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- April - June 2015: CRs organized focus groups in 7 ports.
 - August/September 2015: CRs organized key informant interviews in 5 ports.
 - September/October 2015: CRs pilot tested FLIPP survey in 8 ports.

October 2015 meeting:

FLIPP survey data collection details and training.

- November - January 2015-2016: FLIPP survey data collection.
- March 2016: CRs sorted the themes for fishermen responses to “what keeps you safe” and “what causes injury” using card-sorting.



The image displays two components related to the FLIPP survey: a survey form and a card-sorting exercise.

Survey Form: I. INJURY INFORMATION

If you had no injuries, skip to II. Opinions

INJURY # 1

1. For this injury, which month were you injured? (check one)

Nov 14	Dec 14	Jan 15	Feb 15	Mar 15	Apr 15	May 15	Jun 15	Jul 15	Aug 15	Sep 15	Oct 15	Nov 15
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. What body part(s) were injured? (mark all that apply with an "x")

3. What was the injury? (check one)

<input type="checkbox"/> Amputation	<input type="checkbox"/> Hernia
<input type="checkbox"/> Fracture	<input type="checkbox"/> Hypothermia
<input type="checkbox"/> Cut	<input type="checkbox"/> Sprain or strain
<input type="checkbox"/> Puncture	<input type="checkbox"/> Surface wound or bruise
<input type="checkbox"/> Tear	<input type="checkbox"/> Burn
<input type="checkbox"/> Other (describe) _____	

4. Were you limited in your ability to work or should you have been limited to work following the injury?

☐ Yes ☐ No

If yes, How were you limited? _____

How long were you limited? _____

☐ days ☐ weeks ☐ months

5. What treatment did you receive for the injury and where? (for example, first aid on vessel)

6. Do you think that being tired contributed to the injury?

☐ Yes ☐ No

If yes, please explain: _____

7. Do you think that weather conditions contributed to the injury?

☐ Yes ☐ No

If yes, please explain: _____

Card-Sorting Exercise:

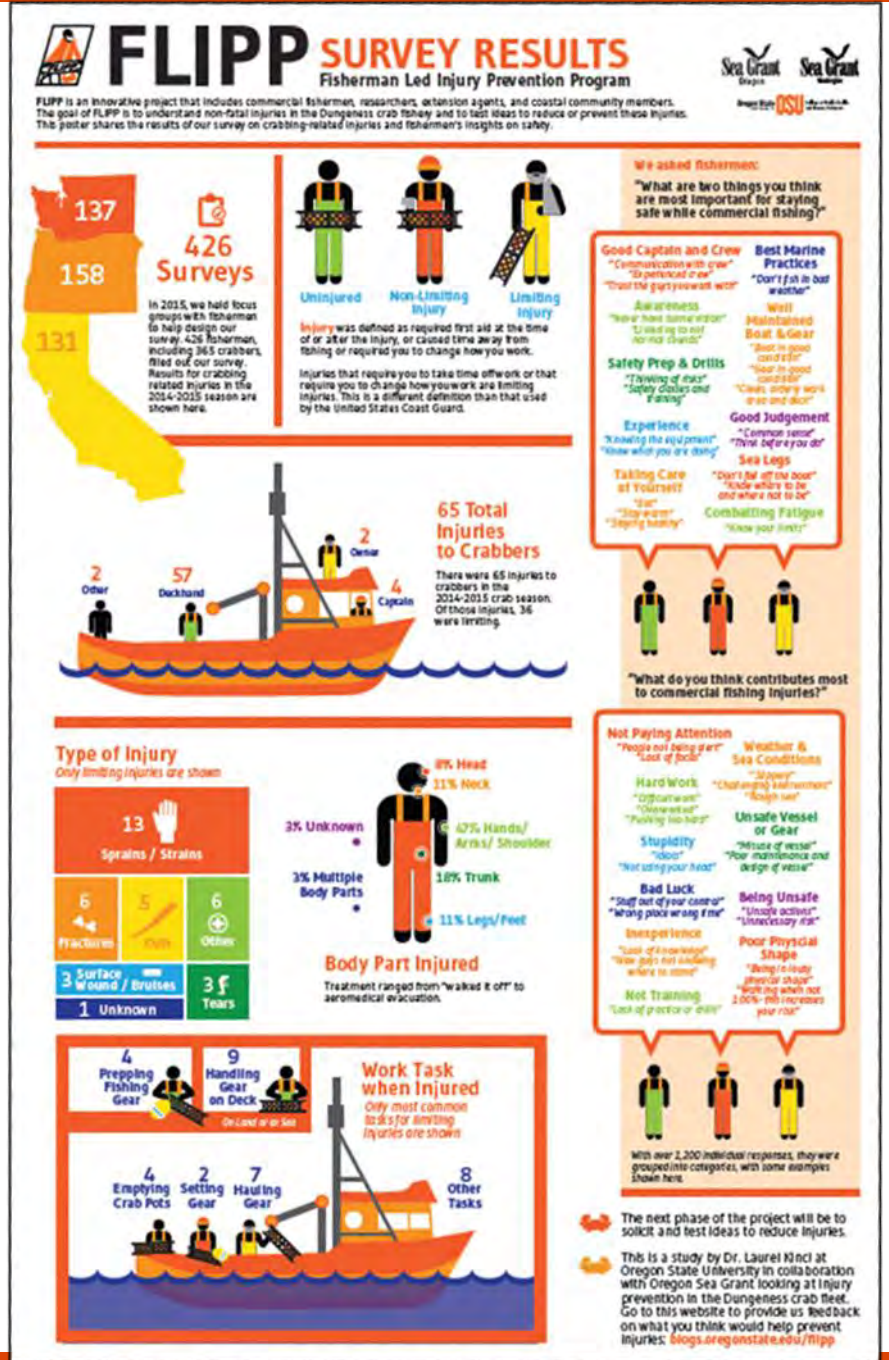
The cards are sorted into the following themes:

- Unsafe vessels
- Equipment/gear
- Poor maintenance and design of vessel
- Misuse of vessel
- Unsafe/Dirty work area
- Slippery
- Lack of hand holds
- Work environment
- Unnecessary safety hazards
- Crab Pots
- Lifting heavy equipment
- Foot/Gear Hazards
- lack of experience
- unaware
- Being aware of surroundings
- lack of attention
- Bad judgement
- Stuff out of your control
- Unaware
- Lack of Common sense
- Lack of knowledge
- Complacency
- Ignorance
- People not being alert
- New guys not knowing where to stand
- Poor coordination
- A false feeling of security/immortality
- Inexperience of experience
- Not doing what you told
- Human/user error

May 2016 meeting:

FLIPP survey result discussion,
fishermen outreach, brainstorming
solutions

- July-December 2016: CRs helped solicit ideas for injury prevention efforts.



June 2017 meeting:
Injury prevention ideas summarized and
discussed for next steps.

July 2017-July 2018: CRs disseminated
resources and engaged fishermen in
participating/testing solutions.



New Resources for Commercial Fishermen



New to commercial fishing?
An info sheet for greenhorns.



**What should be in
a crew agreement?**
A top ten list and sample agreement.



How to build a first aid kit?
Build a commercial fishing specific first
aid kit for your vessel.

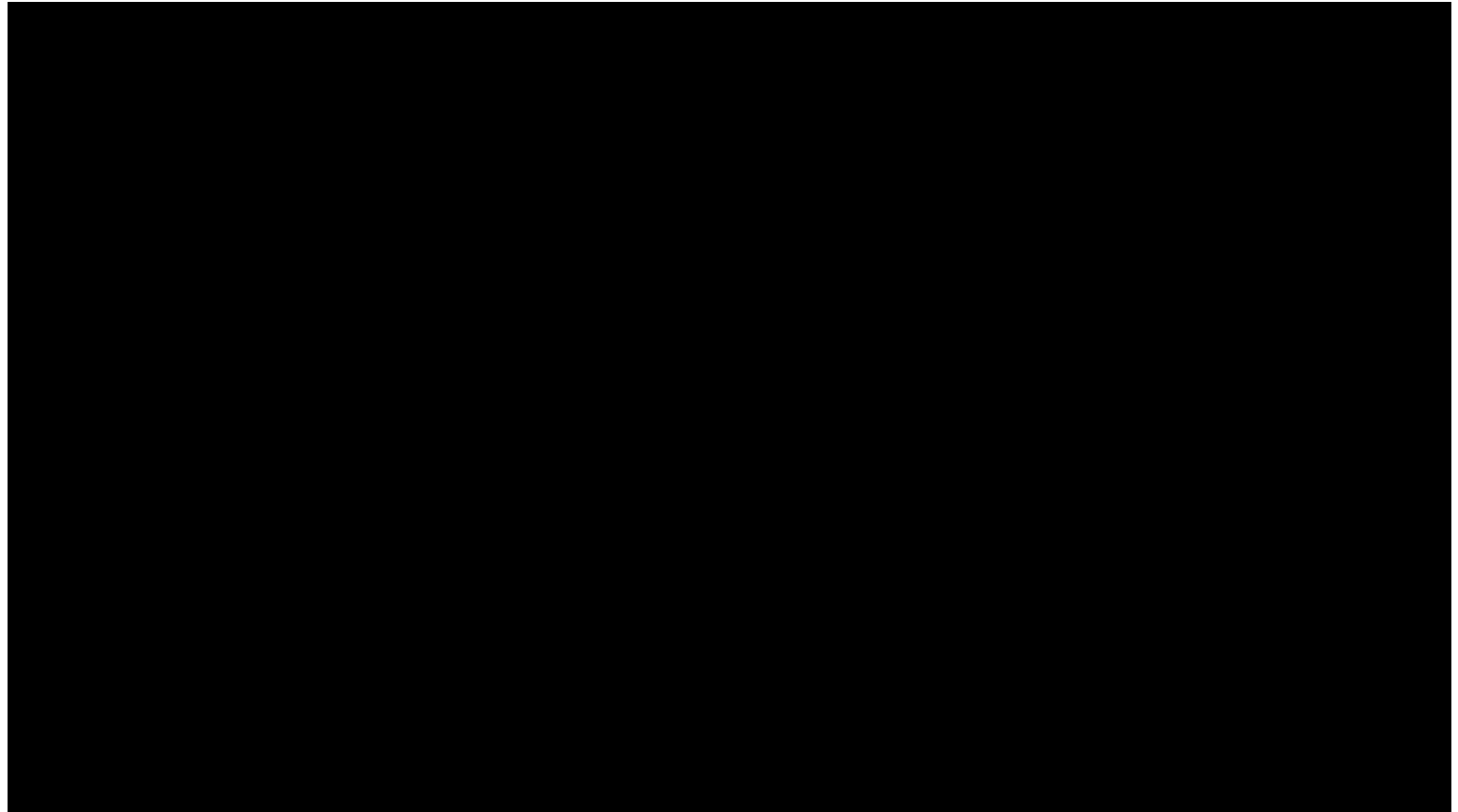
Find all of this and more at: flippresources.org



Pacific Marine Expo



First Aid and Safety Training for Fishermen



Lessons learned

- Herding cats
- Amazing source of great ideas/reaction/feedback
- Amazing data collection/dedication to fishermen
- Community leadership development
- Ongoing collaboration



Acknowledgements

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The findings and conclusions in this presentation have not been formally disseminated by CDC/NIOSH and should not be construed to represent any agency determination or policy.



Thank you
Questions?

