



IYS Survey of Fisheries and Oceans Canada Salmon Staff To Identify Collaborative Opportunities and Possible Next Steps

NPAFC-IYS Workshop on Pacific Salmon
Production in a Changing Climate

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2017 Survey of DFO Salmon Staff from Across Country

Survey was part of initiative to help connect willing DFO staff whose job involves salmon

- All job types: managers, scientists, biologists, technical staff, hatchery staff
- Staff from coast to coast to coast in survey
- Compared findings for different job types and regions
- Focus on Pacific Region results with largest sample size

What themes and and topics within themes were staff most interested in collaborating on and did results vary among job types:

IYS Theme 1 – Status of Salmon

IYS Theme 2 – Salmon in a Changing Salmosphere

IYS Theme 3 – New Frontiers

IYS Theme 4 – Connecting Salmon with People

IYS Theme 5 – Information Systems

IYS Theme 6 – Outreach and Communication

Survey Monkey Used to get Results

1: ID Individuals and their job;

2: ID opportunities for collaboration by IYS Theme and Topic

Fisheries and Oceans Canada / Pêches et Océans Canada DFO Salmon Net: People & Projects

Your Job in DFO

Fisheries and Oceans Canada / Pêches et Océans Canada DFO Salmon Net: People & Projects

Knowing the people building the DFO enter information

Opportunities for Collaboration

1. Web page(s) r

2. Basic job des
e.g. "Field biolog

3. Your Branch/D

Discovering people with similar interests and valuable skills is the basis for new collaborations. One objective here is efficiency: providing just enough information to allow a few but valuable new connections. To this end, we have suggested categories for your interest in collaboration. Because the DFO Salmon Network is, in part, a response to the International Year of the Salmon, the categories are organized by the six IYS themes.

Please tick the most appropriate column in each of the following rows. There is also space to identify more specific topics, skills, and knowledge pertinent to collaboration within each theme.

5. IYS Theme #1. Status of Salmon – to understand the present status of salmon and their environments.

Do you see a potential to expand collaboration on the following?

	No, or not applicable	Yes, but unlikely at present	Yes, I have an activity that would benefit from additional collaboration	Yes, I am keen to share data, skills, and/or knowledge with others	Yes, this collaboration is vital to my work and should be a high priority for DFO
Field data collection (tagging, surveys, sampling, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

For each of 37 topics within 6 IYS themes, participants were asked: Do you see potential for collaboration on.....?

They could respond in one of five ways:

	Description	Label	Weight
1	No, or not applicable	No	0
2	Yes, but unlikely at present	Pending	1
3	Yes, I have an activity that would benefit from additional collaboration	Help	2
4	Yes, I am keen to share data, skills, and/or knowledge with others	Share	3
5	Yes, this collaboration is vital to my work and should be a high priority for DFO	Vital	4

351 recipients

163 responses (46%)

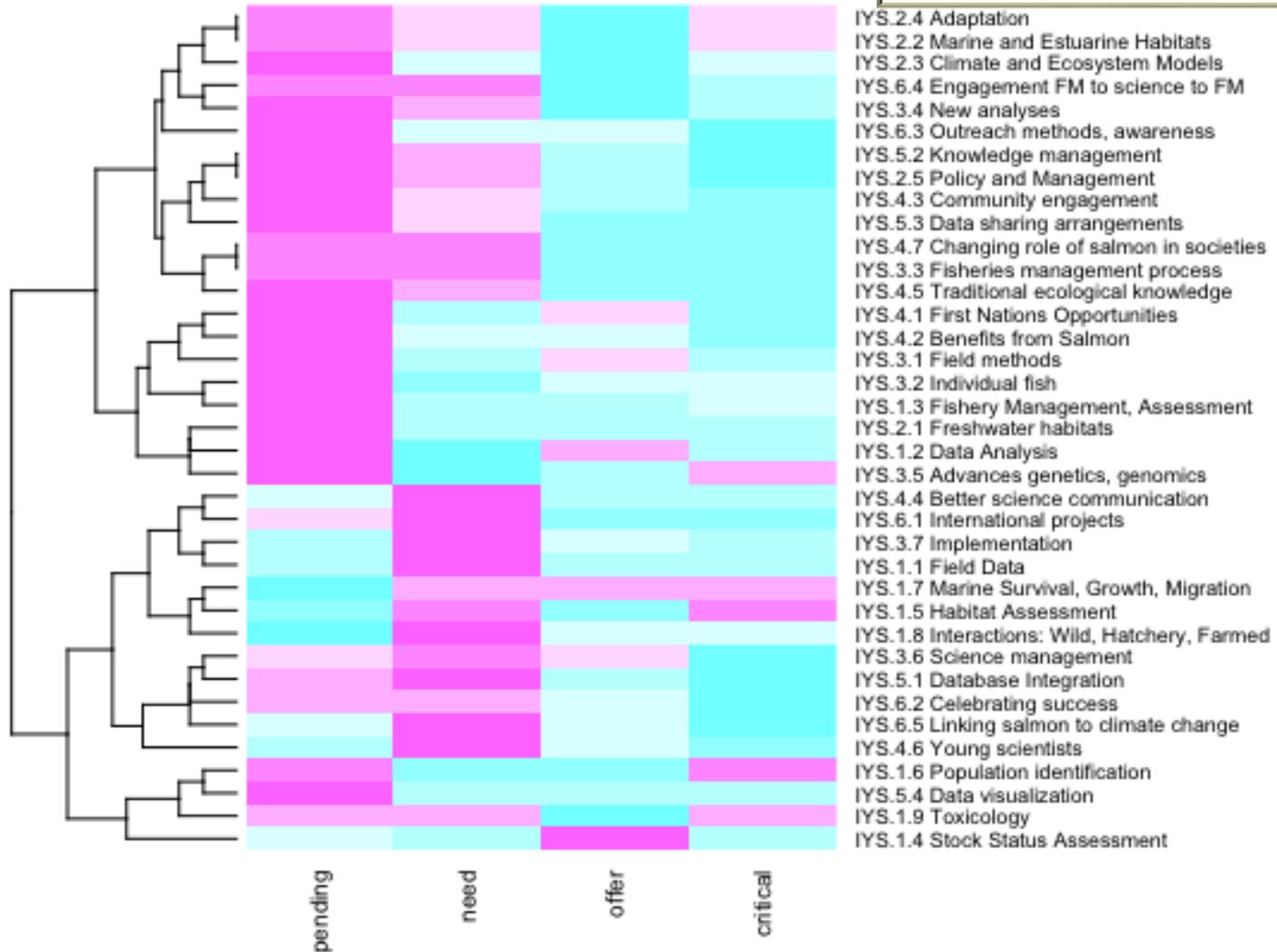
123 responses used (75%)

(others were incomplete)

Similar response rates among DFO Regions and job types

DFO Pacific: Scientists

Topics within Themes



Heat Map (Scientists) – darker purple highest number

In Summary:

Most Important Themes Overall (Job Types):

IYS 1. Salmon Status (Hatchery Staff, Research Scientists)

IYS 5. Information Systems (Technical Staff, Biologists)

IYS 6. Outreach and Communication (Scientists, Hatchery Staff, Managers)

Most Important Topics Overall (Job Types):

Field Data (Technical Staff, Hatchery Staff, Resource Managers)

Data Analysis (Biologists, Technical Staff)

Science Communication (Managers, Biologists, Scientists, Hatchery Staff)



Our interpretation: there is a need for improved collaboration at multiple stages in the flow of information

Information applied for stock assessment, fisheries management projects etc

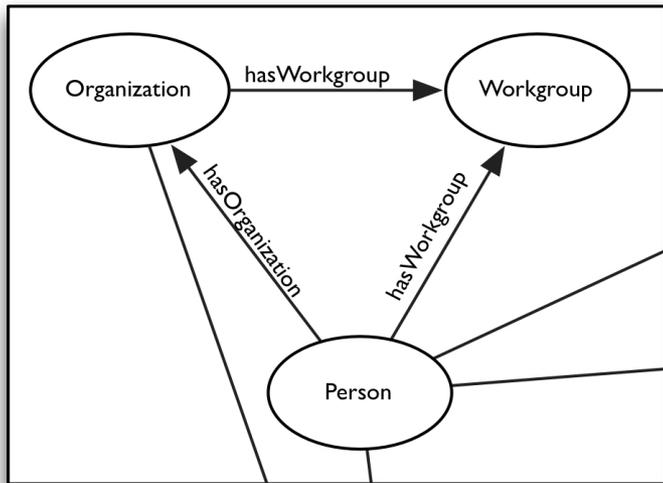
Information processed, stored, managed, distributed

Field data (catch escapement, effort etc), Project information (budgets, objectives, timelines, success)

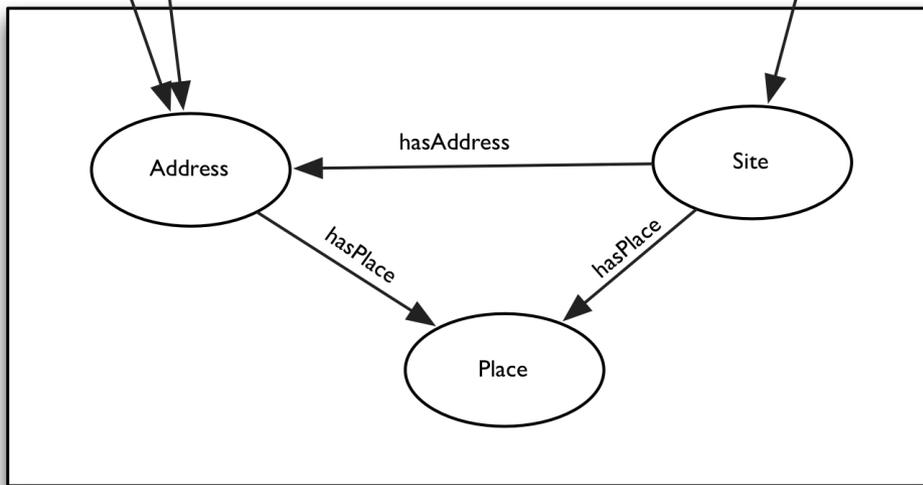
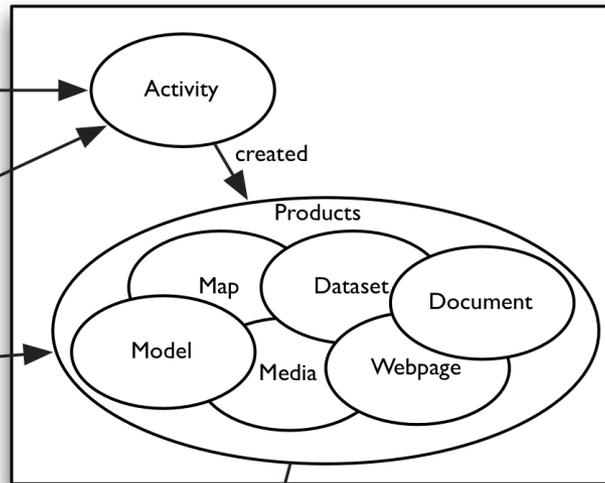
Is there a way to improve flow of information?

How can we improve (modernize)?

WHO



WHAT



WHERE

Proposal to Modernize Information Flow Within DFO

- Gather a more complete listing of salmon activities (projects)
- Activities would be associated with who is leading it, who is collaborating, objectives, budget etc
- Use state-of-the-art software (e.g. RoundTable™) to connect activities and people etc. We have a working prototype.
- Identifying connections among activities and people should result in new and improved partnerships that will improve our ability to manage salmon in an uncertain future

Should such an approach be considered internationally as part of IYS?