

Saturday, June 12, 2010

- 5:29:01 PM European Weekend Testers** Hi everybody [5:29:32 PM] a.silivonchik: Hi
- 5:29:38 PM European Weekend Testers** Welcome to EWT22 [5:30:19 PM] ian123.mcdonald: hi
- 5:31:24 PM Markus Gärtner** hi everyone
- 5:30:39 PM kgdesouz** hi there
- 5:29:27 PM Jeroen Rosink** Hi 2 all
- 5:31:36 PM Markus Gärtner** wow, large conversation list
- 5:31:57 PM Thomas Ponnet** Hello, is it me you're looking for, di du, di dum - I can see it in your eyes... sorry, wrong crowd I guess.
- 5:31:56 PM Michael Bolton** Hello, all!
- 5:32:55 PM European Weekend Testers** Apologies, Skype just crashed, so I vanished for a minute or two there
- 5:33:03 PM Michael Bolton** In order to make this go well, I propose the following: everyone prepare a brief introduction OFFLINE (e.g. in a text editor), then paste it into the chat window. Start now! :)
- 5:33:14 PM Thomas Ponnet** My name's Thomas Ponnet. I've got about 9 years software test experience. I'm currently working as a QA Manager at a GIS company with a team of 4 reporting to me. I'm trying to spread the word of the rapid software testing approach which means that I'm doing a lot of explanations. I'm on Twitter @ThomasPonnet and other social network sites, my blog site is <http://observanttester.blogspot.com/>
- 5:33:24 PM Jeroen Rosink** I'm Jeroen Rosink, living in the Netherlands and working in the field of software testing for about 11 yrs as consultant in several roles from test analyst towards test manager. Currently active as interim test manager. I love this field of business and keep learning when possible. I blog <http://testconsultant.blogspot.com> and Twitter: <http://twitter.com/jeroenro>
- 5:33:27 PM Markus Gärtner** I'm Markus Gärtner, black-belt in the Miagi-Do school, co-founder EWT with Anna, Software Craftsman, blog: <http://blog.shino.de>
- 5:33:40 PM Ian McDonald** Ian McDonald in Aberdeen, NE Scotland. I have worked in software testing for about 8 years. Most of the testing I do is functional testing, including some automated regression testing. Currently working for a consultancy, operating mainly in the oil and gas industries.

5:33:56 PM Artyom Silivonchik [12:29:28] Artyom Silivonchik: Hi all, I'm Artyom Silivonchik. Software tester from Belarus, Minsk. 1 year experience Have been at WTs two times already :)

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5:34:11 PM annabaik My name is Anna Baik, and along with Markus Gaertner I'm one of the co-founders of the Europe chapter of the Weekend Testers. I've been a tester for about 5 years now, and I live in Wiltshire, in the UK, close to the city of Bath. I blog occasionally at the Software Testing Club - <http://www.softwaretestingclub.com/profiles/blog/list?user=1qyjeckcl3cx> and here's my twitter a/c: <http://twitter.com/TesterAB>

5:35:04 PM Michael Bolton I'm Michael Bolton. I've been teaching software testing on five continents for ten years. I'm co-author (with senior author James Bach) of Rapid Software Testing, a course that presents a methodology and mindset for testing software expertly in uncertain conditions and under extreme time pressure. I've been a member of the board and Program Chair for the Toronto Association of System and Software Quality, and Conference Chair (in 2008) for the Association of Software Testing. I wrote a column in Better Software Magazine for four years, and sporadically produce my own newsletter. I live in Toronto, Canada, with my wife and two children. You can reach me at mb@developsense.com, or through my Web site, <http://www.developsense.com>.

5:35:28 PM Richard R Richard Robinson, Wellington NZ. 5 years. Consulting to Banking sector. Functional testing. First time to EWT. Regular at WT and WTANZ.

5:35:45 PM Ajay Balamurugadas Ajay Balamurugadas, a passionate software tester, co-founder of WeekendTesting, based in Bangalore. I blog at www.enjoytesting.blogspot.com and tweet id is @ajay184f. I'll be presenting about WeekendTesting in EuroSTAR 2010.

5:36:09 PM Ken I'm Ken De Souza. I'm a software tester and have been doing a lot of risk-based exploratory testing in the last few years. I'm in Waterloo Ontario Canada. This is my first time to EWT.

5:36:19 PM Jassi Hello Everyone ,I am Jaswinder ,Software Tester from Mumbai,some times blog at <http://testingexplorer.blogspot.com/> tweet @jassi10

5:36:29 PM Michael Bolton That seems to be most everyone.

5:36:43 PM Michael Bolton Missing Tony; that's a pity.

5:36:47 PM Michael Bolton Ah well...

5:36:54 PM Michael Bolton Shall we begin?

5:37:07 PM annabaik Yes please

5:37:13 PM Michael Bolton Okey doke.

5:37:28 PM Ajay Balamurugadas is the password? ;)

5:37:35 PM Michael Bolton Not yet. :)

5:37:40 PM Michael Bolton First, I'd like to thank the Weekend Testers (that is, you) for providing me with an opportunity to do this.

5:38:51 PM Ajay Balamurugadas Thanks Michael. Thanks a lot for your time.

5:39:08 PM Michael Bolton No problem.

5:39:24 PM Michael Bolton [11:37:36] Michael Bolton: This morning (or whatever it is where you are), we're going to go quite some distance out on a limb. I've provided a link to a file that you can download and listen to. There's a streaming version of it at <http://www.cbc.ca/ideas/features/science/#episode13> (please DON'T start listening just yet.) It contains an interview, an episode in a radio series that I've been talking about for a long time, called How To Think About Science.

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5:39:43 PM Michael Bolton Here's the background to the interview, from the link above: On July 3, 1992, the Canadian Fisheries Minister John Crosbie announced a moratorium on the fishing of northern cod. It was the largest single day lay-off in Canadian history: 30,000 people unemployed at a stroke. The ban was expected to last for two years, after which, it was hoped, the fishery could resume. But the cod have never recovered, and more than 15 years later the moratorium remains in effect. How could a fishery that had been for years under apparently careful scientific management just collapse? David Cayley talks to environmental philosopher Dean Bavington about the role of science in the rise and fall of the cod fishery."

5:39:57 PM Michael Bolton Now: This has nothing to do with software testing. Or does it? I have several goals for today, but the principal mission is this:

5:40:05 PM Michael Bolton MISSION: Listen to the recording. Take notes on what you're hearing, with the goal of capturing lessons from the interview that might usefully influence how we test, and how we think about testing. Stories or patterns from your own testing experience that you can relate to something in the interview are especially valuable.

5:40:25 PM Michael Bolton In order to preserve the flow, I'd like to have as little discussion as is necessary while we're listening to the story. That said, as you're listening, you might have some clarifying questions (you might not understand a particular word, for instance). If so, type your question into the Skype window, and I (or others) will try to help out.

5:40:34 PM Michael Bolton You may find it useful to record the time at which something in the story gets said so that we can cross-reference it.

5:40:47 PM Michael Bolton We'll give an hour and five minutes for listening (the recording is about ten minutes shorter than that). That will give us all a little time to pause the recording periodically if we're falling behind in the notes.

- 5:40:59 PM Michael Bolton** Once that's over, we'll have a discussion in which we'll talk about it. We'll ask people to present observations one at a time. Given the number of people, we'll have about five minutes to discuss each one. If there's a whole lot of energy around the topic, we might sustain it for a bit after the time-box. I'd like to start with people who we don't hear from so much.
- 5:41:37 PM Michael Bolton** You will find this a largely trap-free mission, I hope. It's not intended to be tricky or misleading in any way.
- 5:42:07 PM Michael Bolton** However, feel free to learn things about *what's happening* today, in addition to what happened years ago.
- 5:42:33 PM Thomas Ponnet** What exactly does "moratorium" mean? I understand it's some kind of legal restriction, can you go into more detail?
- 5:42:45 PM Jassi** I am still downloading the file till now only 17MB downloaded
- 5:42:50 PM Michael Bolton** Moratorium => temporary ban.
- 5:42:57 PM Thomas Ponnet** Thanks
- 5:43:39 PM Michael Bolton** You can stream the file too, Jassi. You've got 8MB to go. You may have to join the discussion a little late.
- 5:43:46 PM Michael Bolton** Other than that, everybody OK?
- 5:43:51 PM Ken** yes
- 5:43:57 PM Jassi** okies
- 5:44:02 PM Michael Bolton** The password is WeekTest
- 5:44:21 PM annabaik** thanks Michael
- 5:44:46 PM Michael Bolton** See you in an hour!
- 5:44:56 PM Thomas Ponnet** :-)
- 5:45:06 PM Jassi** :)
- 5:51:22 PM Michael Bolton** banks => relatively higher ocean floor under relatively shallow water
- 5:51:40 PM Michael Bolton** capelin => a fish that was the major food supply for the cod
- 5:55:09 PM Michael Bolton** morphology => study of the form (in this case, the form of the fish)
- 5:57:49 PM Michael Bolton** aggregation => a collection composed of distinct elements
- 6:01:57 PM Michael Bolton** satiated => full of food

- 6:16:17 PM Michael Bolton** "When cod spawn, they aggregate" => big numbers of cod get together when they spawn
- 6:18:27 PM Ajay Balamurugadas** spawn?
- 6:18:54 PM Michael Bolton** Spawning => Breeding. Laying eggs that are then fertilized.
- 6:18:58 PM Jassi** spawn -The mass of eggs deposited by fish
- 6:19:24 PM Michael Bolton** Yes, usually considered in terms of actual reproduction.
- 6:21:51 PM Jassi** Is it mentioned Jiggle @0:16:23
- 6:23:00 PM Michael Bolton** jigging for cod => lowering a hook to snag the cod, rather than a hook with bait on it that the cod will eat, such that the hook only goes into the mouth or lip.
- 6:23:14 PM Michael Bolton** There's a more detailed explanation a few moments later.
- 6:34:15 PM Michael Bolton** bycatch => catching a species other than the one you're fishing for
- 6:40:59 PM Michael Bolton** I'm done. I assume I'm pretty close to being the first. Let's take a few moments to collect and sort out our notes and observations, and we'll start the discussion in five minutes. Okay?
- 6:41:25 PM Jeroen Rosink** Im missing still the last 15 minutes.
- 6:41:26 PM Markus Gärtner** need 10 more minutes
- 6:41:29 PM Thomas Ponnet** I'm on minute 39 so could use more time
- 6:41:31 PM Jeroen Rosink** although having some picture already
- 6:41:32 PM Jassi** I m @30 mins only
- 6:41:48 PM Michael Bolton** Okay. Let's make it 15 minutes at least.
- 6:41:50 PM meeta prakash** i m thru to 44 only
- 6:41:59 PM Michael Bolton** It ends at 52:00 or so.
- 6:42:09 PM annabaik** I'm done listening, will start putting thoughts together
- 6:42:11 PM Ajay Balamurugadas** done, so I'll randomly listen to some parts again.
- 6:42:27 PM Richard R** Im done, and making drawings of Cod
- 6:42:45 PM Michael Bolton** @Richard: :)
- 6:43:07 PM Ken** Almost done - at 49min

- 6:43:12 PM Artyom Silivonchik** Done too... but it seems useless for me. Sorry for this. I'll just listen to other's conversation.
- 6:43:56 PM Michael Bolton** Let's start at xx:55 (or, if in India, xx:25), where xx is the current hour of the day for you.
- 6:44:25 PM Michael Bolton** @Artyom: do you remember the mission?
- 6:50:22 PM annabaik** Michael - I'm assuming you'd like us to prep our initial observations as text to paste in, where possible, to save a bit of typing time when we start discussing?
- 6:51:39 PM Markus Gärtner** ok, I'm also finished
- 6:51:47 PM Ken** Me too
- 6:51:53 PM meeta prakash** done
- 6:53:55 PM Michael Bolton** @Anna: That might be a good idea, yes.
- 6:55:40 PM Richard R** Can we limit the amount of text pasted? Its going to be a read-a-thon
- 6:55:48 PM Michael Bolton** Heh.
- 6:55:54 PM Michael Bolton** It might be, indeed.
- 6:56:05 PM annabaik** ok, maybe I better stop typing :)
- 6:56:09 PM meeta prakash** :) 'read-a-thon'u bet !!
- 6:56:38 PM Michael Bolton** Here's what I suggest: Let's start with one observation from Richard.
- 6:56:52 PM Richard R** Well then, ok.
- 6:57:27 PM Michael Bolton** We can proceed westward from New Zealand. :)
- 6:57:34 PM Ajay Balamurugadas** LOL
- 6:57:44 PM Markus Gärtner** :)
- 6:57:50 PM Richard R** Here goes...
- 6:57:52 PM Richard R** Tool Use Tools created waste => same as the maintainability of a testing tool can create much more work, than the value you get from the tool. Especially if you are running the tool looking for the same old defects release after release. The bugs get smarter at hiding.
- 6:58:28 PM Michael Bolton** That's interesting. What part of the story pointed you to that? Bugs are like fish, in this case?
- 6:59:11 PM Richard R** Yes, they talked about the tools/technology/machines that were used to get the satiated fish sitting on the bottom

6:59:19 PM annabaik bycatch?

6:59:25 PM Richard R They said that they created a lot of 'waste'

6:59:38 PM meeta prakash Few key points -....(more of basic requirement & constraints)
1.types of cods 2.their food 3.methods to increase their population 4.taste , color of fish
5.cod's position in river 6.how did scientist related to fishermen 7.closure of fishery -
ecosystem view 8.new technonolygy on fish farming 9. spread of diseases to other fishes
& other dangers drawn like sharks 10.dispute on number of fish left - scientist Vs fisher-
men 11.disagreement of scientist and viewpoints 12.take role of fishing technology man-
agement (how & fishing as way of life) seriously

7:00:07 PM annabaik Oh - where one of the arguments was that fish often fell off the jigglers,
so they'd hooked fish but they never made it into the boat?

7:00:12 PM Michael Bolton Let's pause, Meeta—I have a very similar list, and I don't want
that thread to get lost.

7:00:33 PM Richard R Yes, the Jigger - that was my favourite word.

7:00:33 PM Ken and that the inshore fisherman wanted to ban some of that activity to prevent
the waste...

7:00:47 PM meeta prakash Michael, this reminded me of the luminosity game u had men-
tioned in an earlier post some weeks back

7:00:50 PM Markus Gärtner I love the fish farming analogy :)

7:01:01 PM Michael Bolton "Jigger" is the word, by the way, for those who want to look it
up.

7:01:50 PM annabaik Richard - I liked that section, around 17 mins in, wasn't it? Also liked
the other reasons they gave - e.g. that it was "unbecoming" to fish like that

7:01:58 PM Michael Bolton Yes.

7:02:14 PM Michael Bolton There are two radically different ways of interpreting that point,
I think.

7:02:53 PM Michael Bolton 1) That when we test, we often get "bycatch"—while we're look-
ing for one kind of bug, we obtain lots of others.

7:03:25 PM Michael Bolton 2) Depending on what kind of a fisher you are, you might see
bycatch as valuable stuff that you can sell. Or you MIGHT see it as garbage, and ignore
it.

7:04:29 PM Michael Bolton In the larger sense, technology extends our ability to do what we
want. But it also extends our ability to create waste.

7:04:37 PM Markus Gärtner the most interesting lesson I got from the report was that the fishers there pretty knew what was happening, but management didn't believe them, coining their insights anecdotal, just stories, and continued to do more harm with offshoring.

7:04:51 PM Michael Bolton Thank you, Markus.

7:04:57 PM annabaik There might be regulatory issues that cause issues here too - maybe you dump some bycatch secretly, because you're only allowed a certain percentage

7:05:02 PM Richard R Yes but the waste was the fish that were 'jigged' but then got away, and probably died. This is the same as using your tools for regression testing, and intending to get certain types of bugs, but missing them.

7:05:04 PM Jassi Experience Matters->Where they did not listen about damage to Mother fish.

Its by learning from the Experience of the Testers that we can get more insights

7:05:29 PM Michael Bolton @Jassi +1. No, wait, +10 :)

7:05:40 PM Jassi :)

7:05:41 PM Michael Bolton And it's not just the testers.

7:06:20 PM Michael Bolton What if we thought of the inshore fishermen as "users" of the product that the scientists and managers are "developing" and "selling"?

7:06:52 PM Markus Gärtner the inshore fishermen are more like the testers, being managed, I think :)

7:06:53 PM Jeroen Rosink I see some comparison to testing. It didn't take this audio to investigate what is said, I used it how I can translate the context to testing. There is a lot to say about this. The major conclusion I see here is that the fishermen learned that people are the target of management (49:xx) instead of the fish. The government provides quota (or testers certifications) and they own the fish now.

There is misunderstanding in measurement, scientific figures provided also by commercial parties tells that there is fish, the fisher cannot find them. Perhaps here the analogy is that commercial grounds are there to believe certification programs over craftsmanship.

They mentioned several mistakes like dealing with certain assumption, in the past an answer was provided to stop for a few years and everything would heal. Don't complain now. Perhaps this is also with testing/certification the numbers are referring that it is necessary. Is it good also?

I think as in the audio, we are generalizing the context and believing one solution fits all, and avoiding to look to other relationships

I believe there is more to learn when time was available.

7:07:36 PM Michael Bolton Jeroen's point is WAY to important to discuss while we're still on Jassi's point. Let's come back to that. Jassi's point goes back to Meeta's, which I'd like to return to now.

7:07:58 PM Michael Bolton Meeta, could you please post your list of factors again?

7:08:36 PM Michael Bolton Note that the scientists and managers were focused on the weight of the overall catch.

7:08:37 PM meeta prakash Few key points -....(more of basic requirement & constraints)
1.types of cods 2.their food 3.methods to increase their population 4.taste , color of fish
5.cod's position in river 6.how did scientist related to fishermen 7.closure of fishery - ecosystem view 8.new technonolygy on fish farming 9. spread of diseases to other fishes & other dangers drawn like sharks 10.dispute on number of fish left - scientist Vs fishermen 11.disagreement of scientist and viewpoints 12.take role of fishing technology management (how & fishing as way of life) seriously

7:08:44 PM Jeroen Rosink sorry, posted to early

7:09:04 PM Michael Bolton @Jeroen Yes, but it's very important stuff, so we WILL return to it.

7:09:08 PM Markus Gärtner oh, they were suboptimizing the fishing process, I hear Mary Poppendieck explaining

7:09:38 PM Michael Bolton @Markus You might say that. You might also say that they were overoptimizing their measurement.

7:09:54 PM Michael Bolton Almost a quote: The fishers were *tied to the senses*. The managers looked at quantitative, trends, things that you can see on graph paper were on computers.

7:09:56 PM Markus Gärtner well, what get's measured, changes, isn't it?

7:10:09 PM Jeroen Rosink I support jassis comment about experience with respect to the mother fish. those are circumstances they forgot to consider, they continued working on existing models perhaps proofing they were right initially

7:10:43 PM Jassi 2)Its like a moratorium on exporatory testing & it is disparaged & everyone is asked to do Test case based testing using just the requirements not thinking beyond the requirements, not taking into consideration fluctuations

7:10:54 PM Michael Bolton Right. It seems to me that the scientists and managers were working from the highly impoverished models.

7:11:33 PM Richard R @Michael - yes, they talked about lettting the fish determine how we do the fishing. => In testing, let there be bugs, and let us not assume we know where they are. Let us not assume the techniques that will fit.

- 7:11:40 PM Jeroen Rosink** the knowledge of the people who are fishing is forgotten at a certain moment. it is not what they experienced, it was what the government wants to hear (employment)commercial (money) etc
- 7:12:02 PM Markus Gärtner** oh, models are the believe we're currently hooked up with. But the models may be wrong, as this case study shows
- 7:12:37 PM Jeroen Rosink** the discussion changed from the objects like the fish, growth and evolution of the fish towards economical means/reasons
- 7:12:44 PM Michael Bolton** When we want to answer a question about something that we valuable, our models are designed to simplify some problem—but that ends up simplifying the questions and answers, ignoring other questions and answers, and focusing on that problem at the expense of other problems.
- 7:12:56 PM Michael Bolton** My list included this: - female - size of fish - age of fish - number of eggs spawned per fish - number of seasons to spawn - timing of spawning - variation in location of the spawning grounds - makeup of the species - migration patterns - predator/prey dynamics - fishing changes the environment - fishing also changes the fish - technology used to take the fish
- 7:13:03 PM Thomas Ponnet** Don't want to distract from Jassi's comment but models were mentioned a few times. One of the major pitfalls to me is that they created a model that was new, simple and wrong. As more was learned and the model got more complicated it got dismissed as unmanageable.
- 7:13:15 PM Jeroen Rosink** @markus: perhaps that is the lesson: models might be useful, they must be questioned also at any time
- 7:13:18 PM meeta prakash** 'Moratorium'lead to collapse
- 7:13:46 PM Michael Bolton** I'm not sure that the moratorium led to collapse, Meeta—can you explain that?
- 7:13:46 PM Richard R** Models are useful when they match the context, but can severely limit our achievement if they are wrong.
- 7:13:52 PM Jassi** I agree with @Thomas
- 7:13:58 PM Markus Gärtner** there are no good models, just useful ones in context
- 7:14:11 PM meeta prakash** listen to 1st 2 mins
- 7:14:31 PM Ken** @jeroen: I agree with your point and to add to it, models are fallible
- 7:14:40 PM meeta prakash** they talk about how it lead to fisheries collapse
- 7:14:51 PM Jeroen Rosink** @Michael, would ability to adapt to circumstances also be part of your list?

7:14:53 PM Jassi I guess it was the Use of the Draggers that led to collapse

7:15:07 PM Michael Bolton The moratorium (that is, a ban on fishing) was a response to the collapse.

7:15:29 PM Richard R But was it really a collapse if the models were wrong???

7:15:31 PM Jeroen Rosink or would it be the environment to answer the questions in and use that as a given fact and measure every time?

7:15:53 PM Markus Gärtner "For every complex problem there is an answer that is clear, simple, and wrong. . ." – H.L. Mencken

7:16:14 PM Jassi One more point from Mercantile it has become an industry so to reiterate about the Testing certifications becoming more important than the craft of Testing

7:16:20 PM Thomas Ponnet The thing with the model was that yes, they updated it but only so far as to help them gain control. The model didn't include learning about the model.

7:17:04 PM Richard R Models are an intrinsic part of certified testing. However, the use of them is often left out. Therefore, models/techniques/processes may be used by 'certified' testers which do not find any bugs, or cod.

7:17:12 PM Jassi To add to @Thomas the model was not based on the biology of the fish , they used their own assumptions

7:17:28 PM Michael Bolton I think you might be working with a narrower definition of "model" than I am, Richard.

7:18:04 PM Markus Gärtner in the end, those assumptions turned out wrong

7:18:19 PM Markus Gärtner since the model underlying the system was way more complex

7:18:35 PM Michael Bolton A model, to me, is "an idea, or object, or activity that represents (that is, re-presents) some more complicated idea, or object, or activity, such that what we know about the simpler thing helps us to understand the more complex thing."

7:19:04 PM Thomas Ponnet Learning was seen only useful if it helped manage nature. It wasn't about getting a full picture. Some information about it was ignored, for example the local fisherman="domain matter experts" wasn't taken into account. Which raises the interesting question who feeds into a model and who decides what is valuable information and what isn't.

7:19:57 PM Jeroen Rosink @jassi, I had the same idea: we focus now more on certifications instead of craft If we see it also in testing, why is it so hard to convince people. Why do we need to reinvent the arguments? Why do we not learn from lessons like this audio? Is this perhaps discussion is done on other arguments/commercial grounds?

7:20:40 PM Richard R Im using 'model' as 'any means by which to achieve a stated goal through the use of assumptions that guide that achievement'

- 7:21:06 PM Richard R** So this could be a mgmt process, fishing technique
- 7:21:16 PM Jassi** @Thomas very True & still the mgmt values those having certifications or giving a better count of test cases than finding bugs/defects
- 7:21:43 PM Michael Bolton** Here's something I'd like to bring to the group about models. It's from The Black Swan.
- 7:21:50 PM Michael Bolton** "Models and constructions, those intellectual maps of reality, are not always wrong; they are wrong only in some specific applications. The difficulty is that
a) you do not know beforehand (only after the fact) /where/ the map will be wrong, and
b) the mistakes can lead to severe consequences. These models are like potentially helpful medicines that carry random but very severe side effects."
- 7:21:52 PM Jeroen Rosink** @Richard: "any means to achieve..." is this not too broad?
- 7:21:54 PM Ken** @Thomas: the Inshore fisherman used the tactics of coping and adapting too. These are some basic components of how people learn. we should do the same when we approach testing. We can/do/should do the coping and adapting while we understand the risks too while we test; coping and adapting to variables throughout the life of a project. The "domain matter experts" not only had a model but also used coping and adapting too (when the model changed)
- 7:22:28 PM meeta prakash** how using caplin as bait changed to other processesis that technique improvement leading to ROI ?
- 7:22:54 PM Thomas Ponnet** @Ken, very true and important, I think: The "domain matter experts" not only had a model but also used coping and adapting too (when the model changed)
- 7:23:00 PM Richard R** @ Jeroen - well Im trying up Cod Fishing with Software Testing, so I allowed some widened definition to achieve this :)
- 7:23:32 PM Michael Bolton** @Meeta: I think, after a while, with trawling and dragging, bait wasn't a factor. The offshore draggers just scooped everything up.
- 7:23:50 PM Ajay Balamurugadas** has the discussion come to India?
- 7:23:51 PM Ajay Balamurugadas** :)
- 7:24:02 PM Markus Gärtner** lol
- 7:24:05 PM Jassi** :)
- 7:24:15 PM Michael Bolton** @Ajay. Go for it. Jassi's in India, right?
- 7:24:17 PM Ajay Balamurugadas** Testing is like fishing. There are patterns: *Satiated state, spawn period,
Everything is a heuristic, can't predict 100 like fishing, we might get all kinds of bugs. Sometimes, all information might not be important, Use the power of blink.

- 7:24:41 PM Jeroen Rosink** @Richard,:) how about making the comparing with testing by the movement from traditional bait-hook fishing towards draggers in respect to GUI testing to unit testing. The dagger was very usefull only it desctructed also some parts.
- 7:25:00 PM meeta prakash** @ajayi m in india and ur city too ;)
- 7:25:02 PM Jassi Yes** @MB I am in India I crash landed in New Zealand :D
- 7:25:35 PM Richard R** ha! welcome to Aotearoa Jassi, the land of the long white cloud
- 7:25:39 PM meeta prakash** sounds a good analogy @ajay
- 7:25:45 PM Jeroen Rosink** Did all means helped to get the maximum sustainable yield, was this the right objective? or should they focus on what had value, fishing and keep fishing also in the future?
- 7:26:04 PM Michael Bolton** Yes. I think I may have introduced confusion here.
- 7:27:24 PM meeta prakash** as the focus was on cods....the consideration of other wild species was totally turned a blind eye on more of a scripted approach ?
- 7:27:28 PM Michael Bolton** There might be a temptation in this story to think of testing as being like fishing (for bugs).
- 7:27:37 PM Michael Bolton** To me (and ONLY to me; everyone else is welcome to their own interpretations), the more interesting angle to the story is the mismanagement.
- 7:27:47 PM Ken** @Michael (on the black swan quote): From the podcast quote "Relationships and interactions instead of objects and mechanics." (40:31). Sounds familiar... I'm looking at you agile mafinesto :) This interaction changes the dynamic of the effect. This could be applied to model as well.
- 7:27:50 PM Michael Bolton** The poverty of the models.
- 7:29:04 PM Michael Bolton** Good catch, Ken! I hadn't noticed that very direct parallel!
- 7:29:58 PM Richard R** @Ken, yes, great 'catch'
- 7:30:01 PM Markus Gärtner** didn't get the point on the agile manifesto there
- 7:30:17 PM Jassi Ya** @MB, it is more of mismanagement,it seems
- 7:30:41 PM Richard R** I dont see it as mismanagment
- 7:30:50 PM Michael Bolton** "Individuals and interactions over processes and tools" sounds an awful lot like "Relationships and interactions instead of objects and mechanics."
- 7:30:56 PM Markus Gärtner** oh, and I love the relevance to Matt Heusser's Fishing Maturity Model :)

- 7:30:57 PM Ken** @markus - <http://agilemanifesto.org/> - 1st point - "Individuals and interactions over processes and tools"
- 7:30:59 PM Richard R** Instead its more about investment and making as much money as possible from the poor wee Cod
- 7:31:14 PM meeta prakash** I agree with @richardit seems like more of misguided management
- 7:31:15 PM Markus Gärtner** ah, thanks michael :)
- 7:31:15 PM Richard R** The \$\$\$ and greed motivated the management
- 7:31:34 PM Jeroen Rosink** @Michael, I follow you about the missmanagement. I see some comparison with other fields we can learn from. In this example, there was a need to change, they found a certain way to adapt the processes, they stopped fishing for 2 yrs and at that moment under those conditions it worked out. they start believingt hat the figures and lessons learned would be usefull also next time, also the same conclucions were appropriate. Then sciences did not catch up with technology, they were both lacking behind. mismanaged
- 7:31:38 PM Jassi** I feel it is mismanagement yes @Richard exactly
- 7:32:15 PM Markus Gärtner** reflecting back on the time scale of the report, it seems to be well in the industrialisation phase of the late 19th and early 20th century
- 7:32:37 PM Markus Gärtner** interesting to see similar patterns of behavior for testing managers
- 7:32:51 PM Jeroen Rosink** @richard, not only greed and \$\$\$ also the responsibility of governments to care for their people and ignoring some other populations ignorin the effects
- 7:33:22 PM Michael Bolton** @Richard: I'm curious as to how a focus on "investment and making as much money as possible from the poor wee Cod" ISN'T mismanagement.
- 7:33:24 PM Richard R** The \$\$\$ ROI have totally dominated the industry. That is why at the end of the audio, there is reference to the inland fishermen being able to still fish sustainably, but the trawlers must stop, as they are unsustainable.
- 7:33:48 PM Richard R** Because management comes 2nd to greed
- 7:33:52 PM Ian McDonald** I need to go now. Sorry for not contributing to the discussion. The programme was interesting, and I have found the analogies very powerful. Thanks for a worthwhile session.
- 7:33:57 PM Richard R** I agree there is mismanagement, but it is motivated by ROI
- 7:34:10 PM Richard R** Therefore, the root cause of the problem is \$\$\$, not mismanagement

7:34:11 PM Markus Gärtner bye ian, thanks for participating

7:34:31 PM Michael Bolton In particular, the mismanagement is based on what I think is a false premise: that one can successfully comprehend and control natural variability with severe and unexpected consequences.

7:34:39 PM Michael Bolton Thanks, Ian.

7:34:48 PM Jassi bye @Ian

7:34:59 PM Thomas Ponnet Bye Ian

7:35:46 PM Michael Bolton Note that understanding complex systems can't be obtained via checking, and it can only be partially obtained via testing.

7:36:17 PM Michael Bolton I think, to a great degree, the survey trawlers were *checking*.

7:36:37 PM Richard R Yes! so is this a good case for exploratory fishing, and exploratory management techniques prior to fully implementing them?

7:37:00 PM Richard R We can search for gaps in our understanding, before we commit substantial effort :)

7:37:12 PM Richard R And substantial mistakes

7:37:13 PM Markus Gärtner context-driven fishing, rather

7:37:21 PM Thomas Ponnet Michael, without wanting to stop you... in fact I do want to stop you from pointing out things that other people might report. Do you want to let the discussion run or let other people report on their findings first?

7:37:36 PM meeta prakash [11:05:34 PM] Michael Bolton: Note that understanding complex systems can't be obtained via checking, and it can only be partially obtained via testing. I think, to a great degree, the survey trawlers were *checking*.

««

7:37:44 PM Michael Bolton @Richard: I think it does relate to a sense that our models must be tested. We won't find problems in our models if we simply check them.

7:37:50 PM Thomas Ponnet In your own words, is it a problem that we're not getting more reports or do you want to let it run free?

7:38:08 PM Michael Bolton @Thomas In whose own words?

7:38:35 PM Richard R @MB: Yes but we can progressively test our models, by first checking them.

7:38:57 PM Thomas Ponnet I remember learning from your Rapid Testing course the question "Is this a problem?" which is fantastic. I'm not sure if it stems from you or James.

- 7:39:18 PM Jassi** I have a question: We heard the problem, are discussing it, what is the solution for this @Michael Bolton @all
- 7:39:56 PM Markus Gärtner** /that/ is an interesting take :)
- 7:40:04 PM Jeroen Rosink** I have to leave within a few minutes, thanks for sharing your thoughts, I believe an interesting session which I will think about later on also. amazing how we were able to carefully listen to 55 minutes finding our own understanding about this. Imagine you were listening to stakeholders, would you believe you missed now already interesting information, what would it be you remembered from your stakeholders :) or even: what would you miss and still able to deliver the appropriate value?! :)
- 7:40:08 PM Markus Gärtner** I wonder if we should stick to the approach the inshore fishermen took
- 7:40:30 PM Richard R** Solution: is to not get certified, as this leads to poor testing. Instead, get invigorated by WT and learn through others.
- 7:40:38 PM Michael Bolton** @Richard Checking, remember, is almost entirely a confirmatory activity. In fact, the way I've defined it, checking doesn't require sapience. You can't test your model without introducing other models. So I'd disagree that checking the model is all that useful.
- 7:40:52 PM Jassi** Bye @Jeroen, I wish you would've stayed for some more time
- 7:40:53 PM Jeroen Rosink** @jassi: should there be a solution? perhaps it is the thought behind: be careful about the context and be able to adapt and learn
- 7:41:01 PM Michael Bolton** @Jeroen: I was hoping someone would bring that up!
- 7:41:25 PM Markus Gärtner** take small steps, etc.
- 7:41:26 PM Richard R** @MB, thanks this requires some 'take-away' thinking about.
- 7:41:52 PM Michael Bolton** I'm delighted that people are talking about take-away thinking and reflection. One goal fulfilled!
- 7:42:14 PM Markus Gärtner** well, we're reflecting right now, aren't we?
- 7:42:22 PM Michael Bolton** Here's another: anecdote should not be dismissed as eagerly as people seem to do it.
- 7:42:24 PM Jassi** @richard "take away" can u plz elaborate
- 7:42:26 PM Jeroen Rosink** @jassi not every lesson has a solution, some lessons lead to more interesting questions, those questions can define your own personal process and the awareness of maintaining is already one solution :)
- 7:42:41 PM Markus Gärtner** Artyom, what did you take away from the podcast and the discussion so far?

7:42:46 PM Jassi :) yes @Jeroen

7:42:53 PM Michael Bolton @Markus It's the take-away part that I'm excited about.

7:43:10 PM Thomas Ponnet If we see a model and don't test it by building other models, are we not leaving ourselves open to the risk that the first model is plain wrong? And that it most definitely will be wrong as it will change over time?

7:43:18 PM Michael Bolton @Markus. Great question. Thanks for asking it.

7:43:41 PM Artyom Silivonchik @Markus ho. I missed a lot both from record and conversation. Maybe i'll get back to it sometime. But for today i have nothing to say. Sorry)

7:44:01 PM Richard R @Jassi - 'take away' is something I will note down, and refer to further sources for fuller understanding. When done, I will have my very own opinion to share in the future.

7:44:33 PM Michael Bolton Is Aire still here?

7:44:44 PM Michael Bolton Sathyavathi?

7:44:46 PM Ken I have to scoot. but thanks for a great discussion! Just one thought with testing, we're often trying to do similar activities that the scientist are doing in this podcast. Quote - "holding all the other variables constant and project out into the future what will happen to the stock (37:00)". This didn't work out because "all the variables in flux are dynamic and changing, interactions are important between species" (38:46). We do this in scripted test scenarios/cases. However, reality kicks in. Anyway, food for thought!

7:44:55 PM Jassi oki Thkx @richard [7:44:59 PM] Aire Kurgpöld: Yes, still there, trying to keep up with you all :)

7:45:02 PM Markus Gärtner Always remember, when the model and reality do not agree, better trust in the reality rather than the model.

7:45:12 PM Ajay Balamurugadas 17:47 Resistance to change :)

7:45:24 PM Ajay Balamurugadas its there everywhere

7:45:29 PM Ajay Balamurugadas ?

7:45:33 PM Jassi bye @Ken.thkx for joining us

7:46:31 PM Markus Gärtner oh, ajay, they were resisting the new and hip tools, as they harmed their craft

7:46:33 PM Thomas Ponnet afk 2 mins, family business

7:47:22 PM Michael Bolton Okay.

- 7:47:32 PM Michael Bolton** A couple more from me?
- 7:47:49 PM annabaik** I think Satyavathi is offline
- 7:47:48 PM Richard R** Yes, resistance to change is often only combated when the change is proven successful
- 7:48:31 PM Jeroen Rosink @Ajay:** I also marked that note: resiting to change
- 7:48:34 PM annabaik** apologies - have missed most of discussion, had family emergency (ironically, considering the topic - my mother fell into sea. But sounds like everything fine now I hope)
- 7:48:39 PM meeta prakash** unerstanding of types of cod — key issue 32 min
- 7:49:10 PM Michael Bolton** Here's one: Management in the fishery failed. Management of testing is failing a lot these days for similar reasons, which will lead us to more Black Swans. "Management is building on past failures." Weinberg's zeroth law of bad management: When something isn't working, do more of it.
- 7:49:47 PM annabaik** Sounds like approaches to scripted testing failures
- 7:49:53 PM Markus Gärtner** now, the question that puzzles me is, will software testing also take one hundred years to realize the flaw of their acts?
- 7:50:11 PM annabaik** if you write scripts for your testing, and someone else runs them and fails to find an issue - often the first questions are not - Was scripting the right approach? but Was the scripiter bad at their job? Was the executor bad at their job?
- 7:50:24 PM Michael Bolton** I agree very strongly with Meeta that one of the biggest lessons here is the lame understanding of the /systems/ of fishing. Treating "the cod" as an aggregate and as the sole focus of study is a huge mistake.
- 7:50:33 PM Michael Bolton** Now: here's something interesting.
- 7:50:51 PM Michael Bolton** Take the word "cod" from my sentence above, and add an E.
- 7:51:05 PM Thomas Ponnet** There's an interesting Psychology model that explains Weinberg's zeroth law of bad management. It lists drivers for people, this one would be the "try harder " driver
- 7:51:14 PM Jassi** But they say that scripted tests help to keep a track on the defects or else we wud be lost & I have no answer for this
- 7:51:29 PM Markus Gärtner** hehehehe
- 7:51:30 PM Michael Bolton** I didn't even notice that until the third time I tried to type "cod" and typed "code" instead. And I just did it again!
- 7:51:42 PM Thomas Ponnet :-)**

7:51:44 PM Jassi wow :) Code :) hmmm

7:51:47 PM Richard R @MB - that hit the spot

7:51:54 PM annabaik :)

7:51:56 PM meeta prakash Metrics are they an issue ? 35 mins

7:52:09 PM Markus Gärtner it's the first law of bad management, I think, thomas,

7:52:10 PM Michael Bolton @Jassi You have been told something that is both incomplete and incorrect.

7:52:42 PM meeta prakash [11:20:12 PM] Michael Bolton: I agree very strongly with Meeta that one of the biggest lessons here is the lame understanding of the /systems/ of fishing. Treating "the cod" as an aggregate and as the sole focus of study is a huge mistake. Now: here's something interesting. Take the word "cod" from my sentence above, and add an E.

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7:52:43 PM Markus Gärtner "When something isn't working, do more of it."

7:52:54 PM Thomas Ponnet Is it OK if I list some findings? I'm sure there's lots more in it to discuss..

7:54:16 PM Michael Bolton @Jassi "Scripted tests help to keep a track on the defects, and that without them we would be lost". That's exactly the same kind of stupidity that has ended the livelihoods of inshore fishermen.

7:54:25 PM Michael Bolton @Thomas Please!

7:54:32 PM Thomas Ponnet First of all, I feel that I need more time to digest the information and do it justice. So the following is basically raw data and needs to be refined. I concentrate more on the (mis-)management

There was a simple model for the amount of cod in the sea which was too simple and therefore wrong Not all parameters of the model had been identified Some parameters of the model had been misunderstood, for example parameter changes over time had been missed Introducing averaging assumptions was one of the traps – hubris Local knowledge of inshore fishermen = “domain matter experts” has been ignored/dismissed as anecdotal – scientific methods were seen as more accurate and objective The inshore fishermen's protests have not been looked at in detail. They wanted to fish in the traditional way but reasons for that were not investigated Key drivers were managing nature fluctuations in order to get back the money that was invested in the industry. Fluctuations turned out to be unmanageable – there was no driver to understand the model in detail Investing in tools to make it cheaper became a driver to make more money which backfired Once more parameters were found they were dismissed as complicating the model too much (and making it unmanageable) Industry put pressure on to get higher allowable quotas which means what was learned was ignored and numbers changed against better knowledge to

serve the industries need for money As the model got very complicated it didn't help management The target of management changed from figuring out how to achieve the goal to targeting people, the fisherman, to change to their demands

7:54:35 PM meeta prakash 38 min ...govt to retain jobsdont we want to retain scripted tests ?

7:54:38 PM Michael Bolton @Jassi We can have a discussion about this later one.

7:55:31 PM Jeroen Rosink Im sill here, had some other things to do. off course there are ansers how we can compare it with testing. Im curious what would the main question you would ask to yourself on which you will look for the answer over the next week based on the audio and the discussion here

7:55:43 PM Jassi okies @MB

7:55:56 PM Jeroen Rosink Mainly: what are you willing to learn and how are you sharing that knowledge?

7:56:05 PM Michael Bolton Scripted tests (when performed by a human, especially) have enormous problems with them. As context-driven people who don't believe in best practices, we can't claim that anything is a worst practice. But I'm appalled at the extent to which people see scripted tests as being helpful, instead of harmful.

7:57:00 PM Thomas Ponnet @Jeroen, I think that there isn't just one main answer - there's a trap there as well. Ask a question demanding one answer and you might get one, ignoring other important ones. Having said that, learning is the main one for me, it encompasses the other answers.

7:57:00 PM Michael Bolton Excellent summary, Thomas. I agree.

7:57:28 PM Michael Bolton (BOTH the most recent summary and the long one above.)

7:57:53 PM Thomas Ponnet Thanks, I'm blushing :-)

7:58:10 PM Michael Bolton Checking focuses on those simple answers. That's not entirely bad; even checking can reveal a crisis, as it did in 1992.

7:58:34 PM Michael Bolton But the trouble is that the scientists had been focused on checking for years and years, since the 30s.

8:00:07 PM Michael Bolton What they needed was *testing*, in the senses of a) gathering information with the intention of informing a decision; b) questioning a product (namely, their own science) in order to evaluate it; c) technical, empirical *investigation* of a product, done on behalf of (many) stakeholders, with the intention of revealing quality-related information of the kind that they seek.

7:59:57 PM Thomas Ponnet I'm not sure if the scientists have only been checking, but I think that they ignored information that came outside their realm, which to me is somewhat arrogant - you're not in our club so we ignore you.

- 8:00:35 PM Thomas Ponnet** Looking into what the subject matter experts(local fishermen) had to say might have brought valuable insights for the scientists
- 8:00:48 PM Michael Bolton** Note that the fishers used sensory input that the scientists didn't: they differentiated between fish /based on how the fish tasted/, for example.
- 8:00:55 PM Markus Gärtner** oh, the scientists simply lacked a sense of imagination
- 8:01:02 PM Ajay Balamurugadas [11:30:32 PM]** Thomas Ponnet: Looking into what the subject matter experts(local fishermen) had to say might have brought valuable insights for the scientists
«< Management listening to testers and not checkers?
- 8:01:02 PM Thomas Ponnet** And I agree with all you just wrote
- 8:01:02 PM meeta prakash** predictable consequences" - 44 min.....what about sapient approach ?
- 8:01:13 PM Markus Gärtner** imagining that there may be more behind they things they modeled
- 8:01:58 PM Michael Bolton** As I suggested earlier, it's more than management listening to testers. In one way, I see the inshore people as more like users, bigger stakeholders than testers.
- 8:02:01 PM annabaik** On 12/06/2010, at 19:00, Michael Bolton wrote: > Note that the fishers used sensory input that the scientists didn't: they differentiated between fish /based on how the fish tasted/, for example. There's a pattern here I think - anecdotal and sensory input is considered less important, because it isn't quantitative
- 8:02:28 PM Jeroen Rosink** @Thomas: great answer indeed!perhaps that is a credo we should remembering.
- 8:03:15 PM annabaik** On 12/06/2010, at 19:01, Michael Bolton wrote: > As I suggested earlier, it's more than management listening to testers. In one way, I see the inshore people as more like users, bigger stakeholders than testers. » But were they important users? It sounds like the only users who were listened to were operators of big offshore fishing
- 8:03:30 PM Michael Bolton** Testers (scientists) can help with this by paying attention to actual users (the inshore fishers) and connecting what both groups (testers and users, scientists and inshore fishers) to managers (government and regulators, in the fishing model).
- 8:03:54 PM Michael Bolton** @annabaik YES!
- 8:03:56 PM meeta prakash** bicatch -47 minu catch main required one as well as othersexploratory testing ? rapid testing ?

- 8:04:54 PM annabaik** meeta - actually, I was thinking about this - I think bycatch might relate better to another analogy - how we affect the system when we're testing it?
- 8:04:57 PM Michael Bolton** The task was to "make the sea legible from afar". In that view, the number becomes the focus of everyone managing the fishery. "The number needed to fix (that is, hold steady and/or ignore –MB) a lot of variables. Without the assumption of equilibrium, the model is too complex to calculate." But that's not the same as the model being *right*.
- 8:05:42 PM Michael Bolton** @Meeta... yes, that's focusing on fishing == testing, which is a different set of models and analogies from what we've been on about, but still useful and insightful, of course.
- 8:06:36 PM Thomas Ponnet** Without the assumption of equilibrium, the model is too complex to calculate. That's the point where I think it went rapidly downhill. HAVING the information and NOT reacting on it was one of the major mismanagement decisions.
- 8:06:49 PM Michael Bolton** I think that the bycatch issue reminds us to see what else is in the net!
- 8:07:19 PM Thomas Ponnet** afk 2 mins
- 8:07:37 PM Michael Bolton** AFK?
- 8:07:39 PM meeta prakash** scientist say lot of fish= unstable code ?fisherycant find fish = no bug caught ? 50 min
- 8:07:46 PM Markus Gärtner** I need to leave in a few, interesting discussion
- 8:08:05 PM Michael Bolton** @Meeta... I think there are lessons there, yes.
- 8:08:20 PM meeta prakash** bycatchleading to impact analysis ?
- 8:08:20 PM Jassi Oh** @Markus
- 8:08:24 PM Ajay Balamurugadas** Away from keyboard = AFK
- 8:08:34 PM Michael Bolton** @Ajay. Ah. Thank you.
- 8:09:06 PM meeta prakash** @ajay =expert at acronyms :)
- 8:09:16 PM Michael Bolton** @Meeta: From above, "predictable consequences" is something people tend to say /after/ they know the end of the story.
- 8:09:30 PM annabaik** apologies, have to leave
- 8:09:31 PM Thomas Ponnet** Sorry, back now. afk=away from keyboard. Used in the online game community
- 8:10:01 PM Michael Bolton** OK, Anna... I hope you mum dries out successfully! [wry grin]

- 8:10:02 PM Markus Gärtner** oh, bye anna, hope to see you soon
- 8:10:07 PM annabaik** thanks for a very interesting session :)
- 8:10:13 PM Michael Bolton** Thank you, as always, for organizing it!
- 8:10:15 PM Thomas Ponnet** Bye Anna and thanks for helping organise this!
- 8:10:18 PM Jassi** Bye @Anna
- 8:10:39 PM Jassi** Thanks Anna & Markus for EWT :)
- 8:10:47 PM Richard R** Im off too, thank you for having me at EWT. Hopefully I will see some of you at WT and WTANZ sometimes soon :)
- 8:11:19 PM Thomas Ponnet** Thanks for participating today, hope you enjoyed it
- 8:11:19 PM Richard R** Thank you for your commentary everyone. I will be looking over the transcript and picking up those testing gems...and there are many!
- 8:11:24 PM Jassi** bye @Richard, @everyone its was 3 am when Ricahrd joined us here :) kudos to him
- 8:11:38 PM Michael Bolton** Yes, Richard... thank you!
- 8:11:41 PM Markus Gärtner** oh, good night richard! :)
- 8:11:51 PM Richard R** Yes, good morning ;)
- 8:11:57 PM Jassi** @Markus its Morning for him
- 8:12:00 PM Jassi** :)
- 8:12:07 PM Richard R** Im going to have some cereal, then go to bed lol
- 8:12:11 PM Markus Gärtner** sure, but I would get back to bed if I got up at 3am :)
- 8:12:28 PM Jassi** :) hehehe
- 8:13:39 PM Thomas Ponnet** I found the list of important stakeholders interesting. As has been pointed out the local fishermen were stakeholders but not deemed important. Were there others we missed?
- 8:14:01 PM Michael Bolton** There wasn't too much talk about that, but let's see if we can generate a list.
- 8:14:08 PM Michael Bolton** Brainstorm activate!
- 8:14:15 PM Michael Bolton** Inshore fishers
- 8:14:20 PM Michael Bolton** Fish processors and packers

- 8:14:26 PM Michael Bolton** Canadian government
- 8:14:34 PM Michael Bolton** Non-Canadian fishers
- 8:14:35 PM Jassi** BAnkers
- 8:14:48 PM Thomas Ponnet** Providers of tools for the industry
- 8:14:49 PM Michael Bolton** Bankers were mentioned, yes!
- 8:14:53 PM Jassi** Investment agencies????
- 8:14:55 PM Michael Bolton** Good catch, Jassi!
- 8:15:13 PM Michael Bolton** Ministry of Fisheries and Oceans
- 8:15:18 PM Michael Bolton** Scientists
- 8:15:21 PM Michael Bolton** Consumers of fish
- 8:15:22 PM Jassi** thkx :)I am fishing today inspite of bieng a vegan
- 8:15:39 PM Thomas Ponnet** Fish that may live off code and people that live off that fish
- 8:15:51 PM Michael Bolton** A vegan is often in a better position to consider fishing problems than a carnivore is! :)
- 8:15:53 PM Thomas Ponnet** Argh, now I made it and wrote code instead of cod!
- 8:16:04 PM Jassi** What about the "Cod" fish
- 8:16:26 PM Michael Bolton** Yes. Non-vegans ignore the cod all the time. :(
- 8:16:27 PM Jassi** :)
- 8:16:51 PM Thomas Ponnet** People eating cod, there must've been a demand
- 8:16:56 PM Jassi** The Scientists & biologsits
- 8:17:17 PM Michael Bolton** Here's a group of stakeholder: people who live in South America, where the fish are harvested to feed the fish farms in Canada.
- 8:17:33 PM Jassi** & the people who buy Cod fish , we are missing them
- 8:17:36 PM Michael Bolton** Now: the people who eat cod are in many sub-groups.
- 8:17:53 PM Thomas Ponnet** Neighbouring countries who were prevented from the fishing grounds after year 19xx
- 8:17:55 PM Markus Gärtner** ok, I need to get away from the pc as well. I'll finish the write-up with the transcript later, just continue the discussion, and thanks michael for facilitating

- 8:18:08 PM Thomas Ponnet** @Jassi, I mentioned them :-)
- 8:18:17 PM Michael Bolton** In Newfoundland, most people fished for many years for subsistence and survival, not to sell fish but to have something to eat.
- 8:18:20 PM Michael Bolton** That's banned now.
- 8:18:34 PM Jassi** oops
- 8:19:10 PM Thomas Ponnet** Markus, thanks for organising as always. Our side discussion was great as well, let's discuss making a mission out of that as well
- 8:19:15 PM Michael Bolton** Then there are people like me, who live a long way from where the fish are. To us, fish are simply a component of our diet.
- 8:19:21 PM Michael Bolton** Thanks again, Markus!
- 8:19:54 PM Ajay Balamurugadas** Thanks Michael, Markus, Anna and all the testers.
- 8:20:01 PM Ajay Balamurugadas** good night.
- 8:20:12 PM meeta prakash** I m sleepy.....almost midnight in India ! l-)
- 8:20:19 PM Michael Bolton** Okay! Time to wind up.
- 8:20:42 PM meeta prakash** thanks michaelit was great being in your class once again :)
- 8:20:42 PM Jassi** Gud nite @Meeta :)
- 8:20:49 PM Michael Bolton** I hope people take the chance to reflect privately or in public. If you like, we'll do more of these.
- 8:20:50 PM Jassi** bye@Meeta
- 8:20:55 PM Michael Bolton** To the blogs!
- 8:21:03 PM meeta prakash** u too Jassipost pics of ur son at dance
- 8:21:22 PM Jassi** sure oh I have only videos :(I too got to go now
- 8:21:53 PM Jassi** Bye @MB@Markus Thanks for this session it was really enriching for me
- 8:21:53 PM meeta prakash** @jassi ..all the better :)
- 8:22:42 PM meeta prakash** bye allthanks marcus and michael
- 8:22:46 PM Thomas Ponnet** OK, have to run as well now. Thanks everybody for participating and to Michael for coming up with a genuinely new type of mission that was both interesting and enlightening. Thank you.

- 8:22:57 PM Michael Bolton** Aire, it would be great to hear from you if you still have something.
- 8:23:06 PM Ajay Balamurugadas** Good night. Over and out. [8:23:21 PM] Aire Kurgpöld: I have a lot of food for thought now, I took this fishing == testing approach and had some different ideas, maybe too trivial though [8:23:55 PM] Aire Kurgpöld: but it was so great to observe discussion here
- 8:24:06 PM Jassi** Bye @everyone it was nice to have so many here & wonderful views, Thanks again @MB @Markus@Anna ,keeping skype on for the discussion
- 8:24:32 PM Michael Bolton** Aire, feel free to drop me a line if you have further thoughts or questions. That applies to everyone, of course. [8:25:59 PM] Aire Kurgpöld: Thank you, I think I have to use that offer :) maybe not tonight but soon
- 8:26:03 PM Michael Bolton** Any time.
- 8:27:12 PM Ajay Balamurugadas** and Aire remember that Michael solves problems that others can't solve and on top of that he will teach you how to solve on your own too :)
- 8:27:32 PM Ajay Balamurugadas** I have experienced that
- 8:28:30 PM Michael Bolton** Thanks, Ajay! (I thought you had gone to bed!) But you know, YOU can solve problems that others can't solve, and that you teach us how to solve them too. :)
- 8:29:08 PM Ajay Balamurugadas** just after I thought i'd leave, Aire was typing.
- 8:29:21 PM Ajay Balamurugadas** so waited for her to complete :) [8:29:38 PM] Aire Kurgpöld: her ;)
- 8:29:51 PM Ajay Balamurugadas** done
- 8:31:23 PM Jassi** ?Aire???
- 8:31:30 PM Ajay Balamurugadas** aurat
- 8:31:40 PM Jassi** This message has been removed.
- 8:31:53 PM Ajay Balamurugadas** she's there
- 8:32:00 PM Ajay Balamurugadas** she just accepte dmy request [8:32:16 PM] Aire Kurgpöld: yes, I'm still here
- 8:32:31 PM Ajay Balamurugadas** aurat = woman in hindi
- 8:32:35 PM Jassi** This message has been removed.
- 8:32:53 PM Jassi** This message has been removed.