FY2014 System Integration Test

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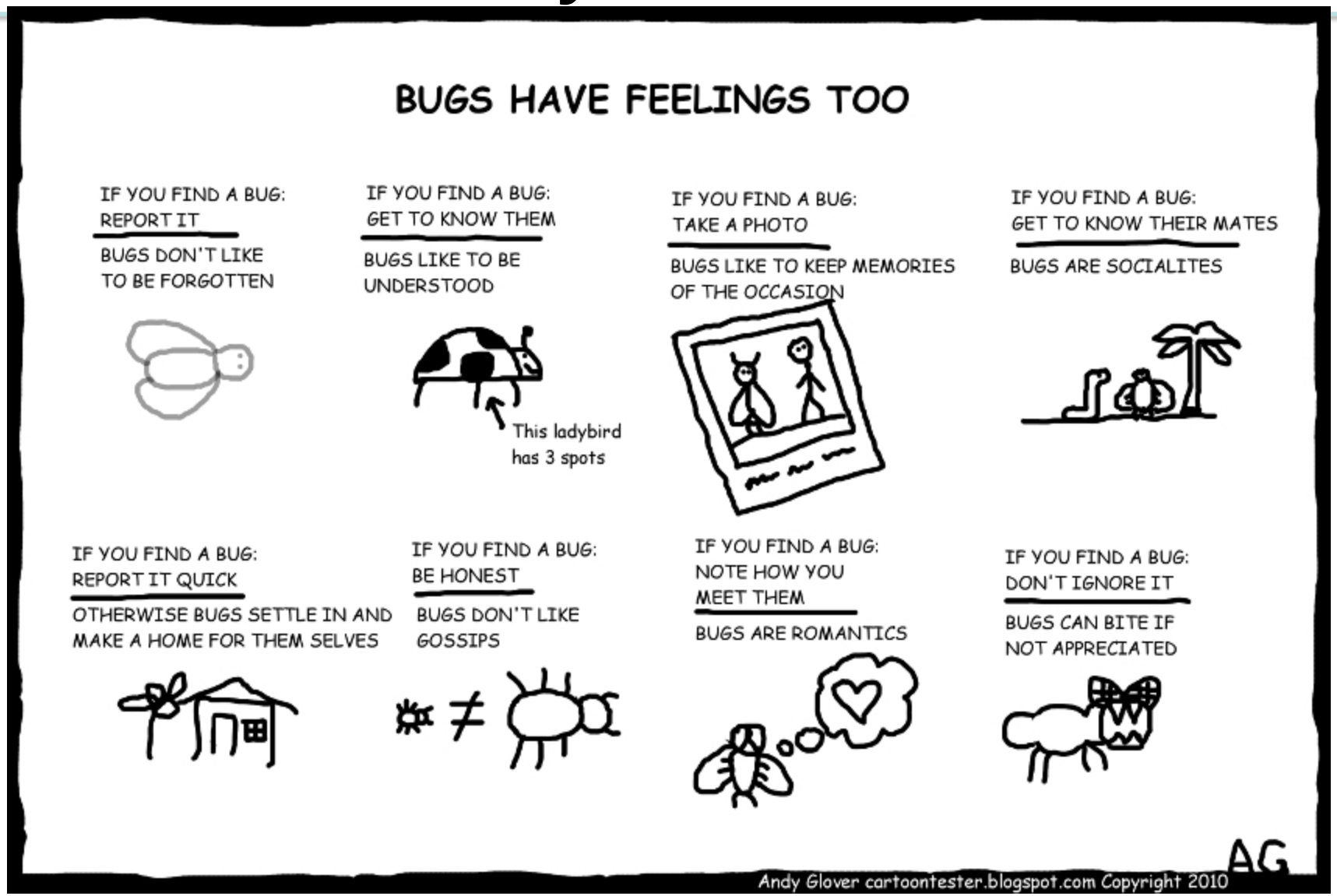
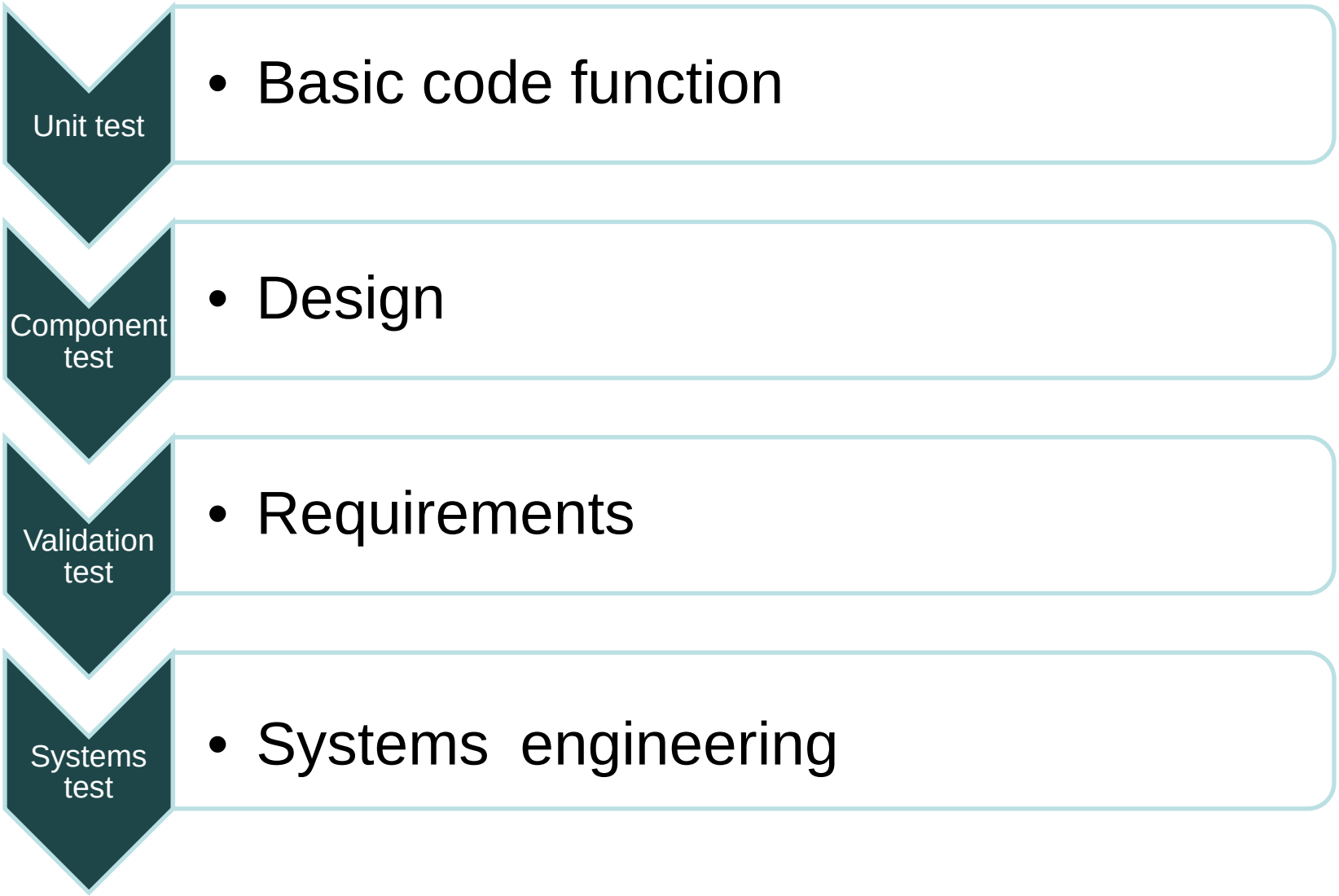
DMAC Workshop Sep 2013

INTEGRATED OCEAN OBSERVING SYSTEM
IOOS®

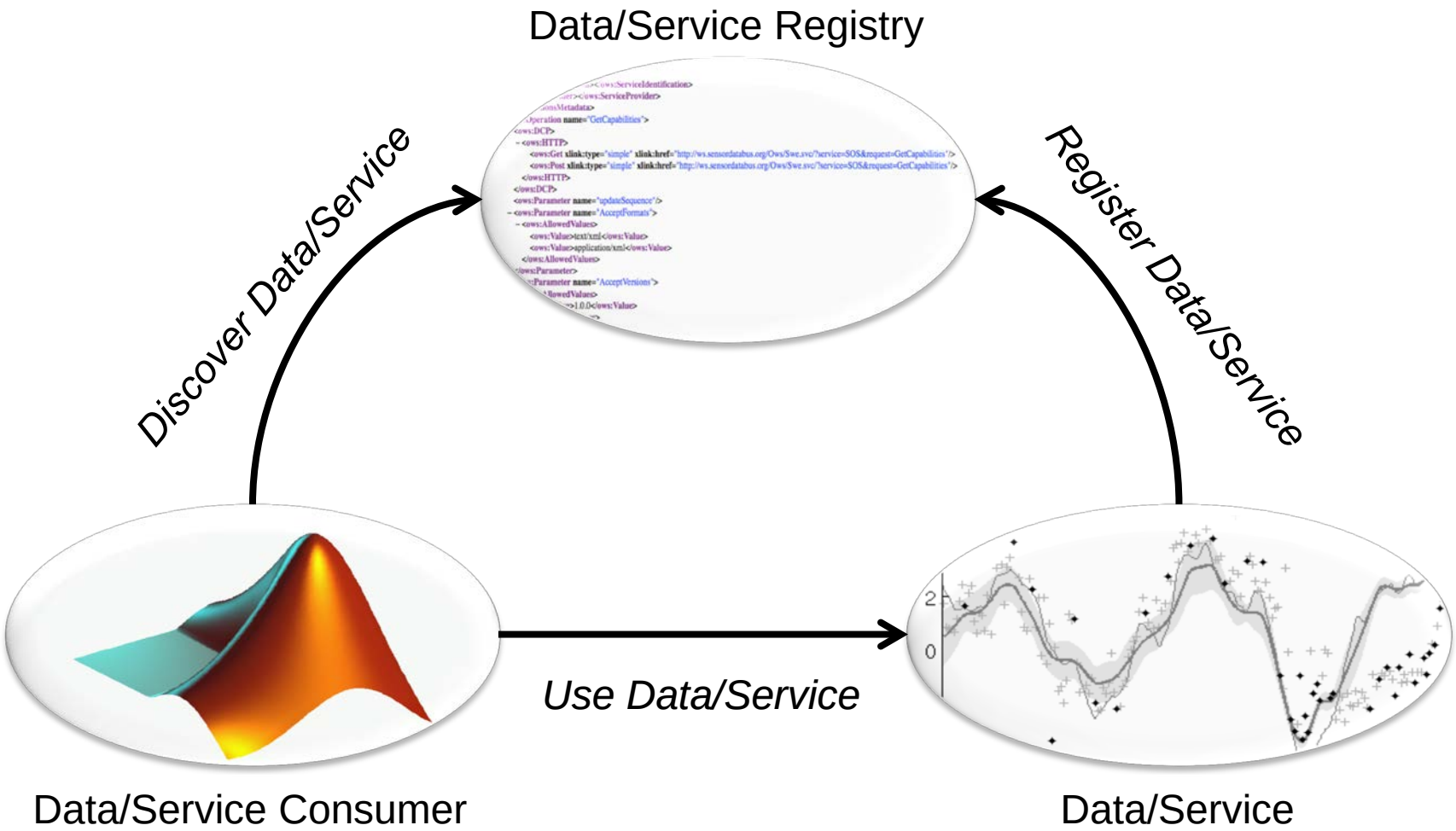
2014 the year of the test



Software testing toolbox



“The System”: distributed implementation of the publish/find/bind pattern



Why should we do this?

- Exercise the existing IOOS distributed data discovery and publication implementation architecture to determine efficacy and identify needed improvements.
- Evaluate Regional/Federal adoption of DMAC
- Identify system constraints, performance issues, needed improvements

How might we do this?

Hurricane Sandy is pushing up the Eastern Seaboard and an analyst in coastal New Jersey has four hours to put together a map of the mean tidal amplitudes overlayed with areas where historical extremes indicate vulnerability to inundation.

Can they find the data and make a map?

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- Repeated application of basic publish find bind steps in different scenarios.
- IEEE testing process definitions
  - Input/predicted results/execution conditions

What next?

- Project Initiation and Charter (DONE)
- Project Planning (Sep ‘13 – Dec ‘13)
- Scenario Identification (Dec ‘13 – Jan ‘14)
- Code/Test (Feb ‘14 – May ’14)
- Analysis and Reporting (Jun ‘14 – Jul ‘14)

Who's in?

RATBERT, MY COMPANY IS HIRING FOR OUR QUALITY ASSURANCE GROUP. YOU'D BE PERFECT.
WHAT WOULD I HAVE TO DO?
DILBERT
BY
SCOTT ADAMS
YOU WOULD FIND FLAWS IN OUR NEW PRODUCT, THUS MAKING YOURSELF AN OBJECT OF INTENSE HATRED AND RIDICULE.
BUT THEN YOU'D FIX THOSE FLAWS... AND YOUR RESPECT FOR ME WOULD GROW INTO A SPECIAL BOND OF FRIENDSHIP, RIGHT?!
NO, THEN WE SHIP.
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