The Planetary Data System and "PDS Challenge" for tool development

PDS Management

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Past NTL interactions

- <u>"PDS Challenge" status as of 2015</u>
  - NASA Tournament Lab(NASA/Harvard/TopCoder) teamed with PSD to implement as NTL action
  - Contests initially supported by NTL via NASA HEOMD (CoECI) and most recently through SMD
  - Used a restricted sample of SBN (comet Halley) - start 2012 and presented at Oct 2012 DPS
  - Poster at Oct 2013 DPS including step to form Cassini-Rings (C-R)Challenge
  - C-R workshop and poster at Nov 2014 DPS
  - C-R poster/presentation for Nov 2015 DPS
  - Planetary Data Storyboard abstract at Dec 2015 AGU in NASA SMD special education session

Challenge Cassini - Rings

1. NTL Teams to search Cassini ISS data for disruptions – citizen science – crowd sourcing.

2. Set up contests/create scenarios (Oct 13)

3. New TC team (3/14) Jen Odess/Ambi Villar

4. Set 2 phase Marathon Match (761 "controls")

5. Pre *67% success (23 submissions, 9 winners)*

6. Evaluation by Rings (30K images) identifies needed improvements in efficiency of tool

7. "bug races" define fixes to algorithym

8. Expect final steps through CoECI contract

Challenge - Storyboard

1. PPI - Storyboard clone to Pinterest (11/14)

2. Proposal from TC/Appirio on hold thru CoECI

3. SMD funding for proof-of-concept (5/15)

4. Need users to search, tag and like other posts

5. Choose existing Myyna site for work

6. Restrict First-to-finish and bug races (38)

7. Total 154 submissions, 34 unique winners

8. URL http://52.3.187.118:3000/
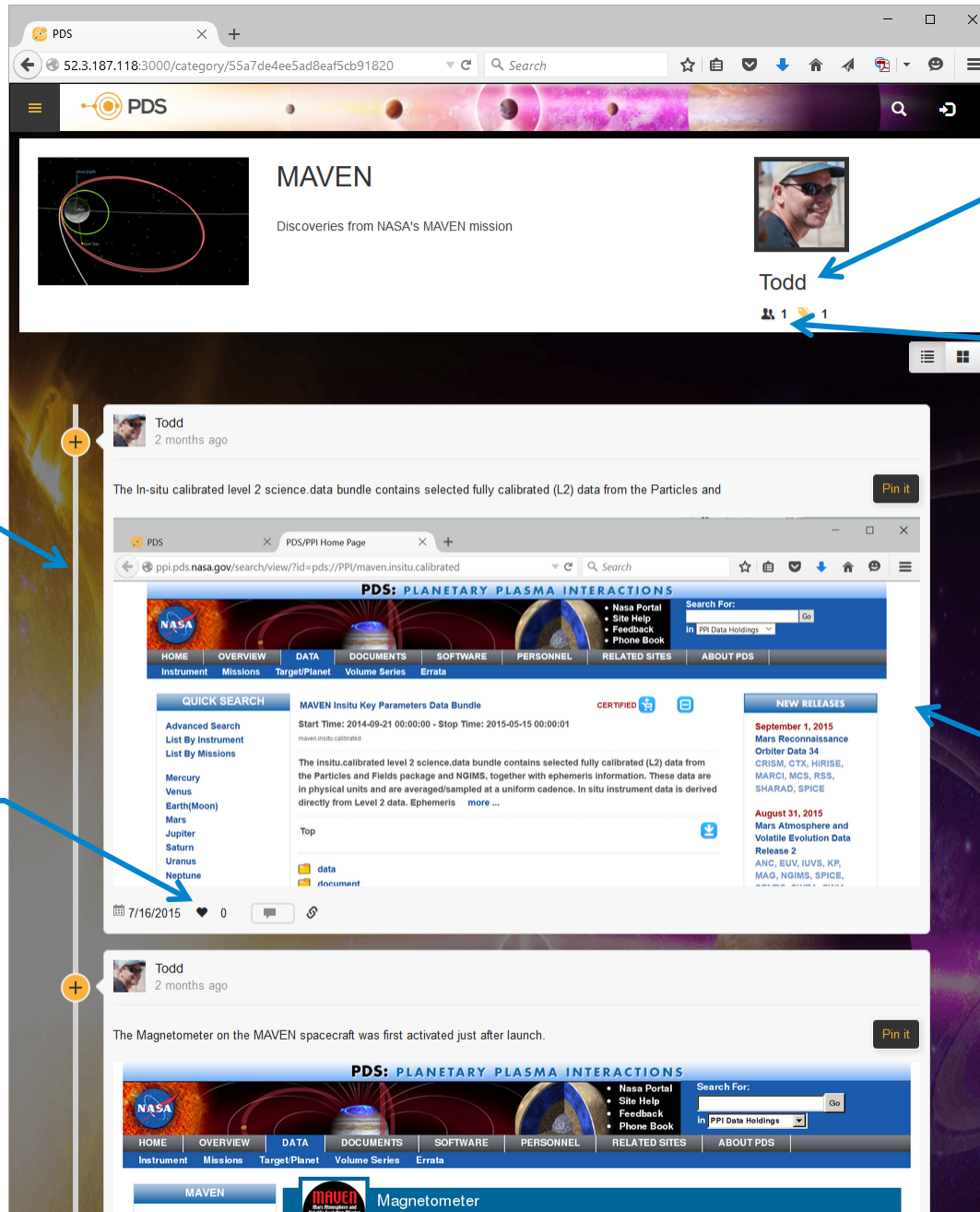
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PDS Challenge Next steps

A. TC/Appirio submitted contract end reports

B. CoECI created a new contract with 10 participating vendors including TC/Appirio.

C. Funding through CoECI contract is possible but more formal process – propose/review; sole source is an option; SMD support tentative

D. Current success manager (Jen Odess) now VP which means working with NASA leads up ..

Background

PDS Challenge Initial Steps

Goal – Node input; further access; PDS4 ?

1.Identify ideas and interest (Dec 2013);

2.About 10 ideas (three different nodes);

3. Assemble list - Kristen(SMD)/Carol (HEOMD);

4. Review planning after Cassini-Rings ends ;

5. Previous PDS HQ support to Nodes

     - buy low end server or alternative

     - acquire needed storage space (or cloud)