



NASA Datonauts 3-D Orbital Data Visualizations

Phase 1: Friendship 7 | Phase 2: EM-1 Mars



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Cindy Chin @cindylchin
Dan O'Neil, NASA Ames

NASA Datonauts Watercooler Chat
December 13, 2017



Introduction

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What is Friendship 7?



Mercury-Atlas 6 Mission

Piloted spacecraft into orbital flight around the Earth
Observe human performance in such conditions
Recover the human and spacecraft safely

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Why Friendship 7?

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3-D Visualization Paper

<http://bit.ly/2z8AlbP>

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Use Cases from Open Data

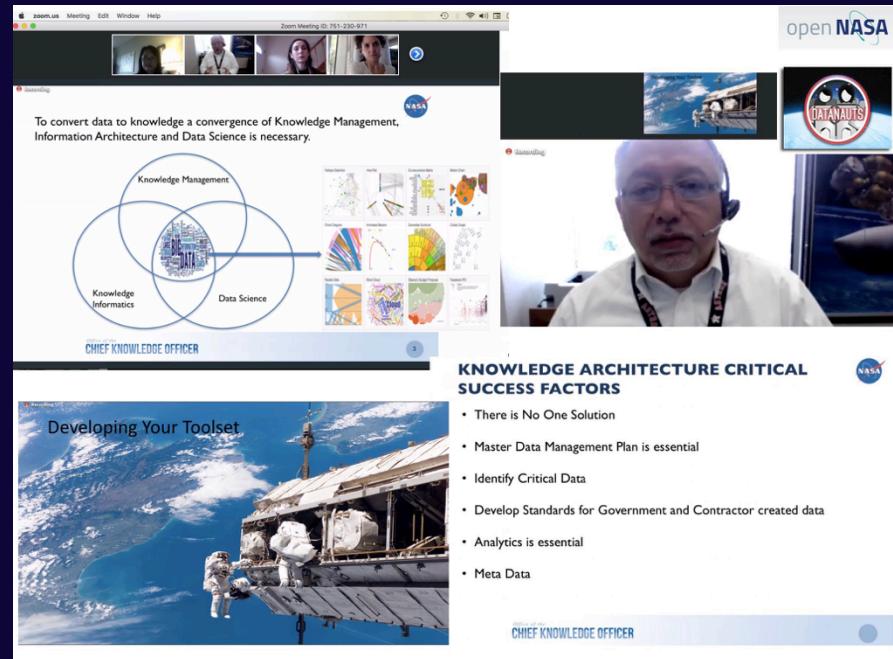
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Use Cases from Open Data

- Scientific Research
- Education
- Sustainability
- Communications
- Data analysis
- Data visualizations
- Data modeling
- CASIS
- Software applications
- Technology



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WHO?



We're looking for you

Phase 1: Friendship 7
Beginners & Intermediate Level

Phase 2: EM-1 Mars
Intermediate & Advanced

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Timeline & Project Plan

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Timeline & Project Plan

Q1 2018

December 2017

- Text data visualizations
- Natural Language Processing (NLP)
- Machine Learning model foundation
- Identify coding languages and tactical plan
- Assign tasks

January 2018

- Identify trends in data categories
- Tidy data
- Final text visualizations
- Orbital dynamics



ASK QUESTIONS!

February 2018

- Present findings at 2018 NASA Datanauts class kick-off
- Recruit new members
- Watercooler chat for next phase





Future Work

EM-1 3-D data visualization modeling
Daternauts 2018 Kick-Off (February 2018)
Dataworks abstract & presentation (March 2018)

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Questions?

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Thank you!

<https://github.com/cindylchin>
<http://bit.ly/2ADR2DJ>

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