

# Note

The following presentation was developed in Prezi, a canvas based online presentation tool. These slides are just screen captures of key locations on the canvas.

To see the native presentation, go to this URL: <http://bit.ly/bWFgRo>  
(Links to: [http://prezi.com/y7b\\_x6blohkn/work-20-and-the-aetd-wiki/](http://prezi.com/y7b_x6blohkn/work-20-and-the-aetd-wiki/) )

See also: <http://opennasatools.pbworks.com/AETD-Wiki>  
<http://istcolloq.gsfc.nasa.gov/fall2010/speaker/verville.html>

The screenshot shows the Prezi interface for a presentation titled "Copy of Work 2.0 and the AETD Wiki" by Jon Verville, dated 15 September 2010. The main content area features a search bar with the text "Work 2.0 + AETD Wiki" and a "Go" button. Below the search bar, it displays "Jon Verville, Code 585" and "IS&T Colloquium, 09/15/2010". A green plus sign icon is followed by the text "Add a page". At the bottom of the main area, there are links for "ing the wiki", "Help contributing", and "About the A". The interface includes a top navigation bar with "Your prezis", "Learn", and "Explore" tabs, and a search bar. On the right side, there are icons for "Edit prezi", "Save a copy", "Download", and "Delete". At the bottom, there is a footer with "Jon.Verville@nasa.gov - IS&T Colloquium" and a "More" button.

Search our pages here:

Work 2.0 + AETD Wiki

Go

Jon Verville, Code 585

IS&T Colloquium, 09/15/2010



Add a page

the wiki



Help contributing



About

9/15/2010 Wiki Features

Jon.Verville@nasa.gov - IS&T Colloquium Kickoff

Topical Navigation

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1. The Open & Collaborative Web

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2. AETD Wiki & Its Background

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3. What's next?

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Dashboard - AETD Wiki - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Most Visited Latest Headlines TutorialsWiki developer.mozilla.org AETD Wiki - Wiki - AF System Dashboard AETD Wiki RSS Feed

Dashboard - AETD Wiki User Macros - AETD Wiki Copy of Work 2.0 Explore | Presi Copy of Web 2.0 in Rob Stran - Wikipe cs take up 9 Feigh Clearing Space - CG

Dashboard Browse System Admin Search

Search | Recent Changes | AETDwiki Blog | Featured Pages | All Pages

edit tab EH

1 Welcome to our shared content

**September 9th**

[JOHN DONOHUE](#), [KATHRYN DOYLE](#)  
[ALEJANDRO MONTCYA](#), [Belinda Barber](#)  
[Caroline Grieswold](#), [KEVIN GILLIGAN](#)  
[TRENCE DORON](#) (500)

**August 20th**

[Timothy Martin](#) (507), [Adam Davis](#)  
[Christopher Norman](#), [Saskiana Ordoz](#)  
[Zhenwei Li](#), [JULIA BOCHNARIS](#) (691)  
[MICHAEL COMBERIATE](#) (400)

**August 10th**

[ANN HARGONS](#), [JASON MITCHELL](#)  
[AKHILN HIRSHES](#) (585)

**We have users from these codes**  
**(bold are official)**

- 160, 110, 120, 120, 272
- 490, 444, 470
- 564, 541, 542, 562, 563, 562
- 564, 567, 551, 562, 564, 565
- 582, 595, 690, 691, 700, 740

Search our pages here:

Work 2.0 + AETD Wiki

Jon Verville, Code 585  
IS&T Colloquium, 9/15/2010

[Add a page](#)

[Help using the wiki](#) [Help contacting](#) [About the AETD Wiki](#)

[Wiki Features](#) [Topical Navigation](#)

Branch Spaces	Features
1. The Open & Collaborative Web	<a href="#">IRAD Project Archive</a>
2. AETD Wiki & Its Background	<a href="#">Spacecraft Databases</a>
3. What's next?	<a href="#">AETD Intranet</a>

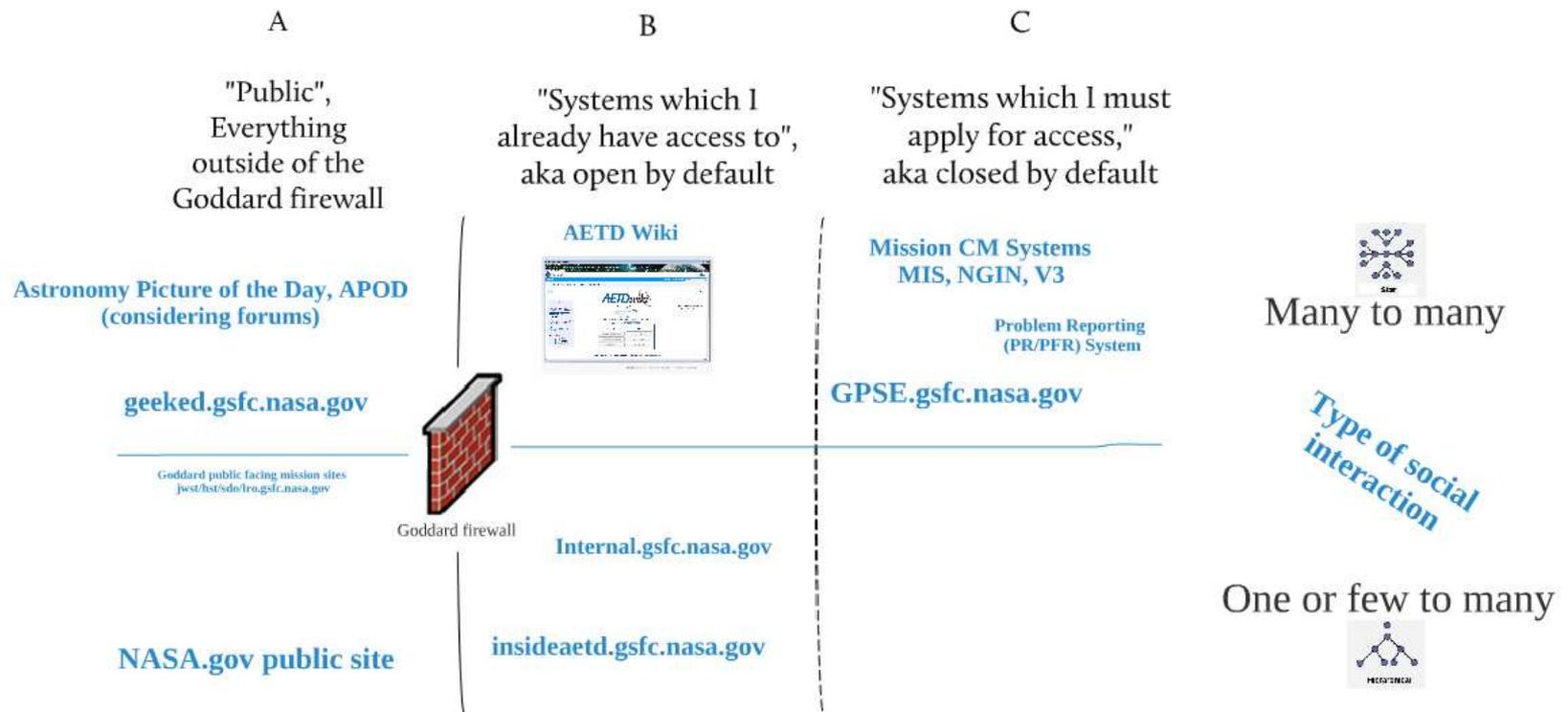
Users currently online

**Group: confluence-users (online)**

[System Admin](#) (admin)  
jon.verville@nasa.gov

For further information, you may contact Jon Verville at [jon.verville@nasa.gov](mailto:jon.verville@nasa.gov) or 301-286-8741

# Spectrum of Openness in IT Systems



# Systems

B

"Systems which I already have access to",  
aka open by default

C

"Systems which I must  
apply for access,"  
aka closed by default

AETD Wiki



Mission CM Systems  
MIS, NGIN, V3

Problem Reporting  
(PR/PFR) System

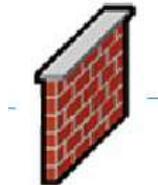
GPSE.gsfc.nasa.gov



Many to many

Type of social  
interaction

One or few to many



Soddard firewall

Internal.gsfc.nasa.gov

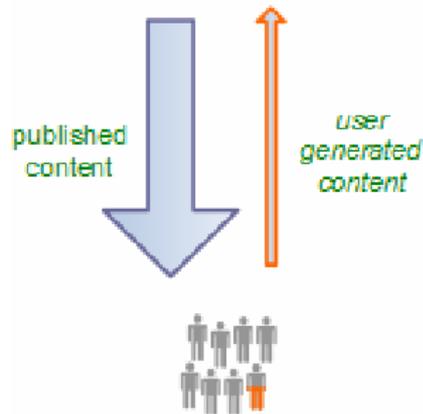
insideaetd.gsfc.nasa.gov

Goal:  
more inclusive  
more open

# Web 1.0

"the mostly read-only Web"

250,000 sites



45 million global users

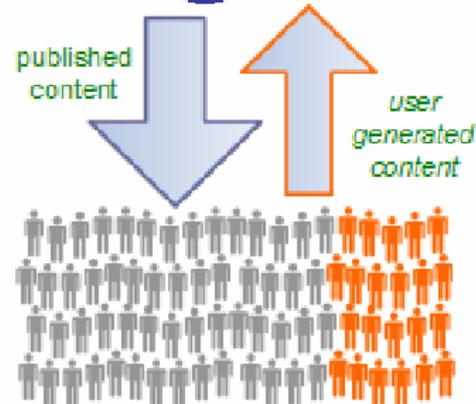
**1996**

Image from Dion Hinchcliffe's  
Web 2.0 Blog

# Web 2.0

"the wildly read-write Web"

80,000,000 sites



1 billion+ global users

**2006**

# Web 1.0

Read-Only Content

Eyeballs

Stickiness

Static

Editors

Personal websites

Closed

Content Management Systems

# Web 2.0

User-generated content

Hands

Syndication

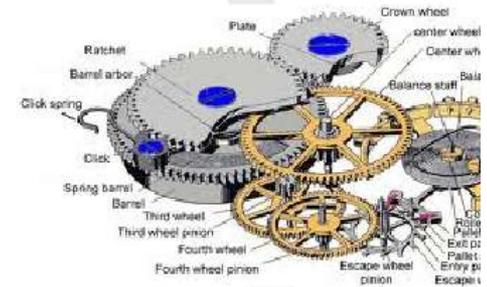
Dynamic

Crowdsourcing

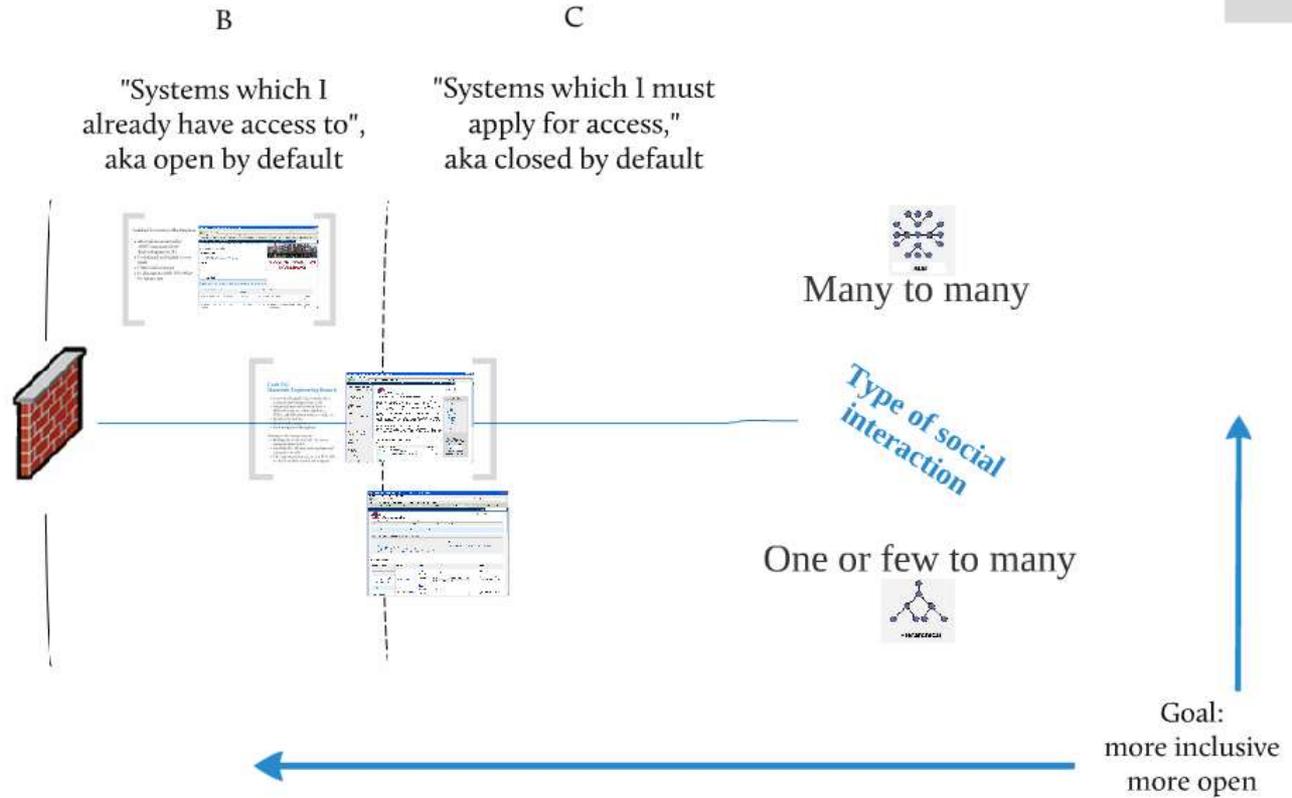
Blogging

Collaborative

Wikis



# Openness Spectrum of Spaces in the AETD Wiki



# Code 541 Materials Engineering Branch

- Converted bound book from the 80's, scanned and formatted into wiki
- Integrated material from at least 4 different sources: online database, PDF's, published materials, records, etc.
- Nearly 400 articles
- 26 material categories
- Rich navigation throughout

## Starting work request system

- Making the work in Code 541 more transparent/trackable
- Interlinked to all materials and material categories in wiki
- The customer (projects, etc.) will be able to check on their open work requests

**Lubricants**  
 The primary function of lubrication is the separation of metal surfaces with a low-viscosity medium. This boundary layer prevents seizing, reduces wear, reduces temperature buildup, and with proper selection, can increase the life of the mechanism. Lubrication must be maintained between all contacting surfaces under the prevailing service conditions. For example, Oil-lubed spacecraft engine inter-connections that include vibrational loading, thermal vacuum testing, and the long duration of space environment.

A significant factor of space lubrication is that there usually is no regularly scheduled replenishment system for the lubricant. For instance, in a motor lubrication the familiar oil change is beneficial because use not only does away with the old but also deposits and contaminants are also removed. For spacecraft applications the lubricant system or method that is selected must last the life of the mission. Other factors to be considered are volatility in vacuum, zero-gravity creep behavior, and the contamination or critical terms by the lubricant.

There are countless lubricants (liquid, solid, and dry-film) available today that are suitable for a particular set of operating parameters. In addition, many lubricants are marketed under company trademarks but may be chemically identical products from a different manufacturer. For example, Bray Co. (Irvine, CA) markets oil and grease under the trademark of Brayco and Brayco that have been used exclusively by NASA. Most lubricants were manufactured by Mobil Oil (Mobil), Esso, and marketed under their MOBIL or trade mark. Certain Form-in and Bray products are equivalent lubricants.

Systems engineering testing should be taken in the selection of a lubricant for space applications. The lubricants contained in the selection are the most frequently used by NASA. Particular care is required to ensure that the lubrication of each mechanism is compatible with the other where several mechanisms are included in the same payload.

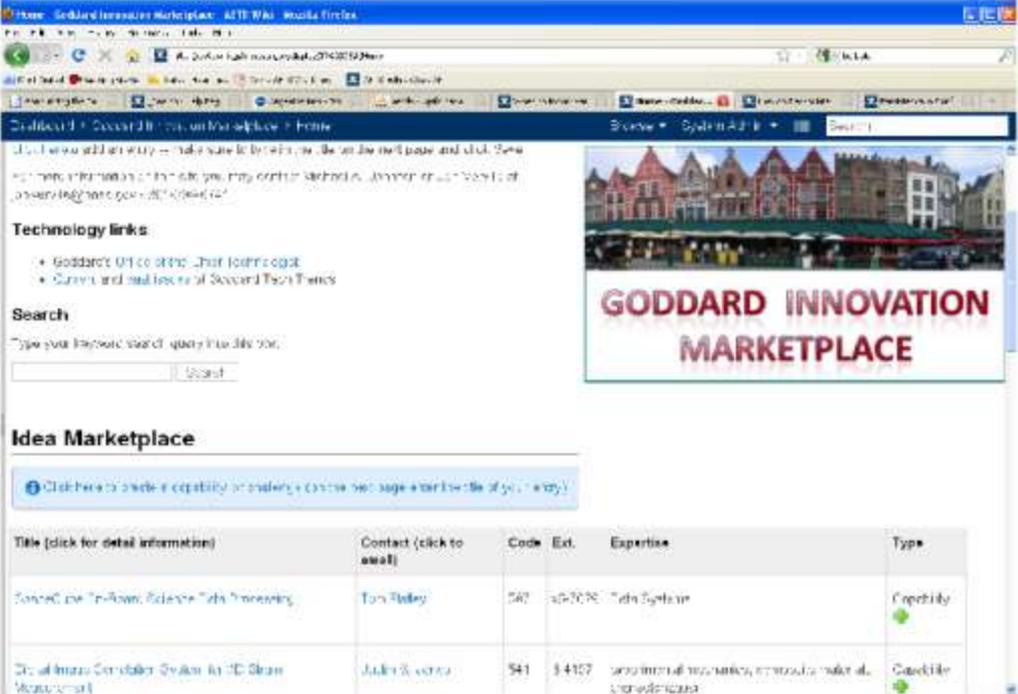
**TIP - Technical Information Papers**

For information about TIP's, see [this page](#)

Name	Comment	Size	Actions
1 <a href="#">TIP 26CR.pdf</a>	Bearing Preloads Up loaded by System Admin on 7/17/10 9:28 PM	72 kB	<a href="#">View</a> <a href="#">Details</a>
2 <a href="#">TIP 26CR.pdf</a>	Co-sputtered MoS2 for Spacecraft Lubrication Up loaded by System Admin on 4/25/10 9:22 PM	85 kB	<a href="#">View</a> <a href="#">Details</a>
3 <a href="#">TIP 26FP.pdf</a>	Anti-creep Films for Oil Lubricants Up loaded by System Admin on 4/25/10 9:22 PM	63 kB	<a href="#">View</a> <a href="#">Details</a>

## Goddard Innovation Marketplace

- Mini-pilot conceived by AETD Associate Chief Technologists (ACT)
- Prototyped and tested in one week
- Fifteen submissions
- In discussions with IPP office for future use



The screenshot shows the Goddard Innovation Marketplace website. At the top, there is a navigation bar with the site name and a search bar. Below the navigation bar, there is a main content area with a large banner image of a building and the text "GODDARD INNOVATION MARKETPLACE". Below the banner, there is a search bar and a section titled "Idea Marketplace". A button labeled "Click here to view a capability or service" is visible. Below this, there is a table with columns for Title, Contact, Code, Ext., Expertise, and Type.

Title (click for detail information)	Contact (click to email)	Code	Ext.	Expertise	Type
Source Code: In-Flow, Science Data Processing	Tom Bailey	567	345678	Data Systems	Capability
Digital Image Correlator (DIC) for 3D Glass Manufacturing	Julie W. Green	541	34457	non-intrusive materials, non-destructive materials	Capability



# Work request index

Added by System Admin, last edited by System Admin on Sep 07, 2010 (view change)

Edit Add Tools

Click here to add a work order with a unique code (i.e. MEB021) (ONLY click here to reset index number)

Note: this is a list of all work orders for Code 541. To see a list of just the work orders that are assigned to you, click here: [Your work request index](#)

## Work Order Table of Contents (assignee in parenthesis)

### Open

- MEB003 - Test ()
- MEB004 - Testtessdf ()
- MEB007 - test WR 10 (MICHAEL VIENS)
- MEB008 - Detecting Differences in Mix Ratios of Epo-Tek H74 (ALEJANDRO MONTOYA)
- MEB009 - Detecting silicone contamination in Rheolube 2000B (ALEJANDRO MONTOYA)
- MEB011 - NVR Wipes Samples from AMSU A1 SN 105 (ALEJANDRO MONTOYA)

### Closed

- Process sample FURE02 (Charles He)
- MEB006 - Tensile Testing or Arathane with cabosil (MICHAEL VIENS)

## Open Work Orders

Title (click for detail information)	541 Assignee	Status	Sample details	Project						
<a href="#">MEB003 - Test</a> hover on these titles for more info: work requested   backgnd info   handling instrs   special instrs	541 Lab Used: Materials Engineering Branch	Open Submitted: Due: Completed:	Sample description: specifications (hover for details) <table border="1"> <tr> <td>Manufacturer:</td> <td>Count:</td> <td>Material category: Adhesives</td> </tr> <tr> <td>P/N or Date Code:</td> <td>S/N or Lot #:</td> <td>Experiment:</td> </tr> </table>	Manufacturer:	Count:	Material category: Adhesives	P/N or Date Code:	S/N or Lot #:	Experiment:	Name:  Direct contact: (Code ), Ext: Project contact: (Code ), Ext:
Manufacturer:	Count:	Material category: Adhesives								
P/N or Date Code:	S/N or Lot #:	Experiment:								
<a href="#">MEB004 - Testtessdf</a> hover on these titles for more info: work requested   backgnd info   handling instrs   special instrs	541 Lab Used: Materials Engineering Branch	Open Submitted: Due: Completed:	Sample description: specifications (hover for details) <table border="1"> <tr> <td>Manufacturer:</td> <td>Count:</td> <td>Material category: Adhesives</td> </tr> <tr> <td>P/N or Date Code:</td> <td>S/N or Lot #:</td> <td>Experiment:</td> </tr> </table>	Manufacturer:	Count:	Material category: Adhesives	P/N or Date Code:	S/N or Lot #:	Experiment:	Name:  Direct contact: (Code ), Ext: Project contact: (Code ), Ext:
Manufacturer:	Count:	Material category: Adhesives								
P/N or Date Code:	S/N or Lot #:	Experiment:								

## Other Wiki Articles

- History of NASA Communication Satellites
- Colloquium Series at Goddard
- Motorola TDRSS Transponder History (D. Zillig)
- Applications for Space - Use of CCSDS Coding (V. Sank)
- various antenna vendors, contact info, spec sheets, etc.

The screenshot shows a Wikipedia article for 'Canted turnstile omni antenna'. The article includes sections for 'Development', 'Key Parameters', and 'Mission Usage/History'. A 'Nodal antenna pattern' graph is visible, showing a broad, flat-topped curve. An image of the antenna is also present, showing a brass-colored cylindrical structure with a central feed. A table of contents is visible on the right side of the page.



- Index of Spacecraft

- **Finishing up 5 branch AETD pilot in November 2010**
- **Evaluating for deployment across AETD**
- **Observations**
  - **Lots of interest from our engineers in ways of collaborating and sharing knowledge, looking for tools that work and are easy to use**
  - **Weaving the use of tool into existing processes is critical, otherwise it becomes one more “nice to do” task, instead of have to do**
  - **Advocate in branch management helps tremendously**
  - **Early career employees take to the technology very well**
  - **Engaging the end user and explaining the benefit of the new technology helps to encourage use**
  - **Lots of interest from other organizations interested in how it can benefit them**



Gartner Group and Fortune 500 CIO's report:

- New collaborative technology introduced across their organizations typically reduces email burden by 30%



Flickr user: bengrey

*As fun as email is...*

# The Future is bright...

- In conversations with organizations from 400, 500, 600 on future implementation and partnerships
- Finish up pilot in November, report out to 500 management
- Also working on a Goddard Spacecraft Index
- Questions?

