



**imeji in science**  
 — best practice scenario  
**Shin-ichi TODOROKI**

Useful  
 not only publicly  
 but also personally

Slide 1

**Who I am** in NIMS

- **Nat. Inst. in Materials Science**  
 50 km from Tokyo  
 w/ 400 tenured researchers
- **Photonic Materials Unit** w/ 15 tenured researchers
- in collaboration with **Scientific Information Office**  


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**OVERVIEW**

imeji for a scientist

**Who I am**

**What I did**

**What I expect**

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**Who I am** as a Researcher

- Optical fibers exposed with high power laser beam  
 incl. “**fiber fuse**”
- High speed videography & damage analysis

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**Who I am** as an eSciDoc user

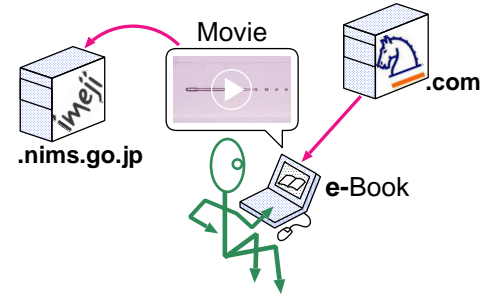
- 133 items self-archived @ **pubman.nims.go.jp** since 2008



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**What I did** [imeji.nims.go.jp](http://imeji.nims.go.jp)

- 9 gif animations of “**Fiber fuse**” linked from an **e-Book** *in press*



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**OVERVIEW**

**imeji** for a scientist

**Who I am**

*a scientist in fiber optics dealing with many photos*

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**What I did**

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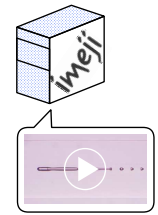
**What I expect**

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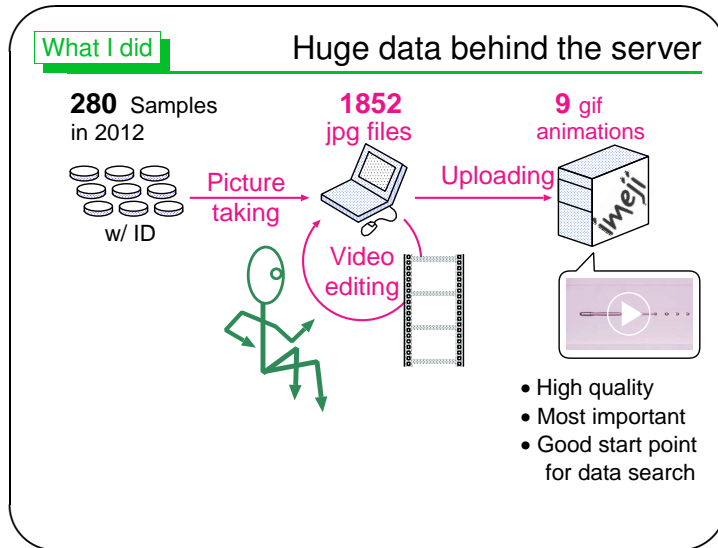
**What I did** **Why imeji ?**

- manageable **metadata** allows me to trace back to the raw data

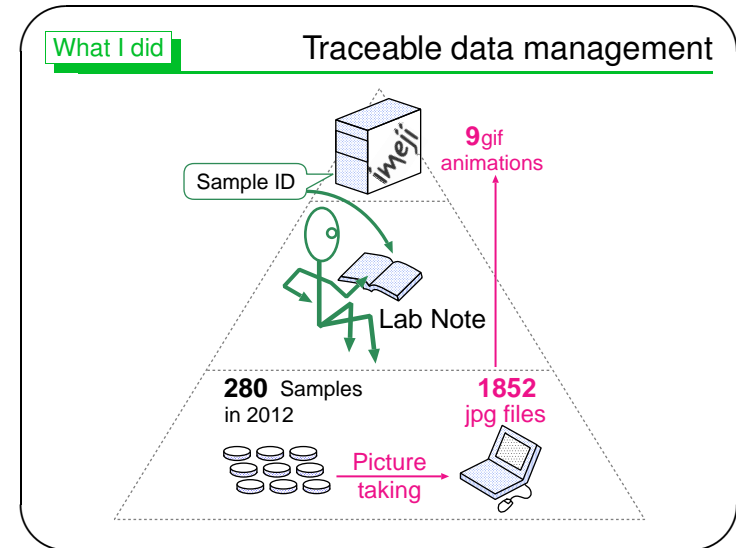


<b>Description</b>	Animation of fiber fuse
<b>Optical Fiber</b>	SMF-28e, Corning
<b>Pump laser PW</b>	6.85
<b>Sample ID</b>	12/1130/110001, 12/1130/120001, 12/1210/100005, ...

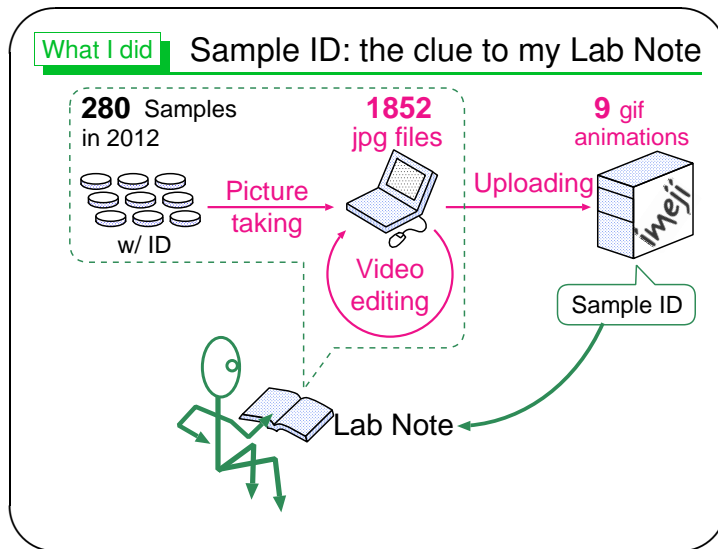
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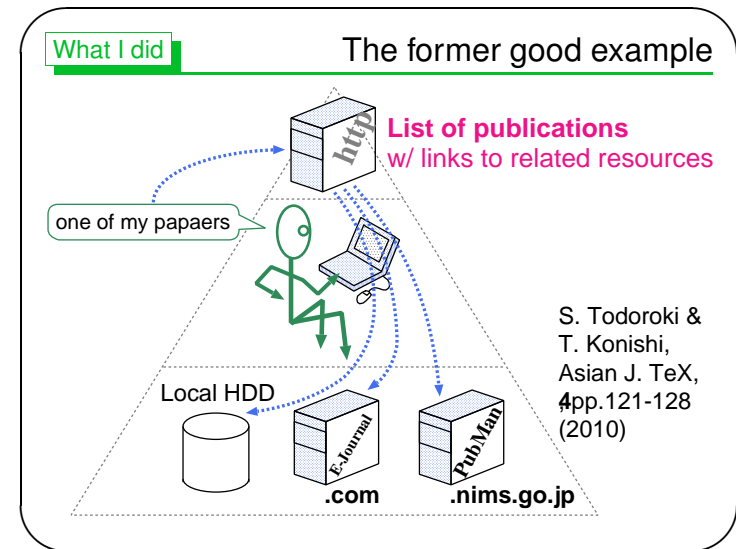
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Slide 10



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**Question** Why researchers won't self-archive?

Because they forgot where he saved his pre-prints.

The diagram illustrates a researcher sitting at a desk with a laptop, looking thoughtful with a question mark above their head. A speech bubble next to them contains various file icons. To the right, a server icon labeled 'PubMan' is shown with a person sitting at a desk in front of it, and a warning sign above the person's head.

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**Answer** Why didn't I upload these jpeg files?

- Not mandated
- Boring for others to see
- Costs much labor to register metadata one by one

The diagram shows a flow from '280 Samples in 2012' (represented by a stack of coins) through 'Picture taking' (a laptop) to '1852 jpeg files' (a laptop). An arrow labeled 'Uploading' points to a server icon labeled 'imeji'. A stick figure is shown sitting at a desk with a 'Lab Note' book, which lists 'Fiber', 'Laser power', and 'Viewpoint, etc...'. A dashed box encloses the 'Picture taking' and '1852 jpeg files' steps.

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**Question** Why didn't I upload these jpeg files?

The diagram shows a flow from '280 Samples in 2012' (represented by a stack of coins) through 'Picture taking' (a laptop) to '1852 jpeg files' (a laptop). An arrow labeled 'Uploading' points to a server icon labeled 'imeji'. A stick figure is shown sitting at a desk with a 'Video editing' icon and a vertical bar chart.

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**OVERVIEW**

imeji for a scientist

**Who I am**  
*a scientist in fiber optics dealing with many photos*

**What I did**  
*compiled a personal DB for managing movies & photos*

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**What I expect**

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**What I expect**

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**Enhance traceability**  
*for local data management*

**Support trust-building**  
*for linking from/to other resources*

**Visualize reputation**  
*to see the public attention*

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**Enhance traceability** **Automatic link generation**

**Description** Animation of ...  
**Date of editing** 2013-01-23  
**Date of exposure** 2012-12-12  
**Sample ID** 12/1130/110001

Predefined template  
Date -> URL

e-LabNote Blog

helps to recall what I did

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**Enhance traceability** **Customizable order**

**Description**  
Optical Fiber  
Pump laser PW  
Sample ID

**Description** } Video  
Pump laser PW } Laser  
Optical Fiber } Fiber  
Sample ID

helps to search data

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**Enhance traceability** **Web-based management**

Samples w/ ID

Picture taking

HDD

Uploading

iWeiji

Sample ID

Links

e-LabNote

Video editing

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**What I expect**

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**Enhance traceability**  
That gives me another chance to discover something

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**Support trust-building**  
for linking from/to other resources

**Visualize reputation**  
to see the public attention

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**Support trust-building**      Possible link creation

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**Support trust-building**      Timeline of publication

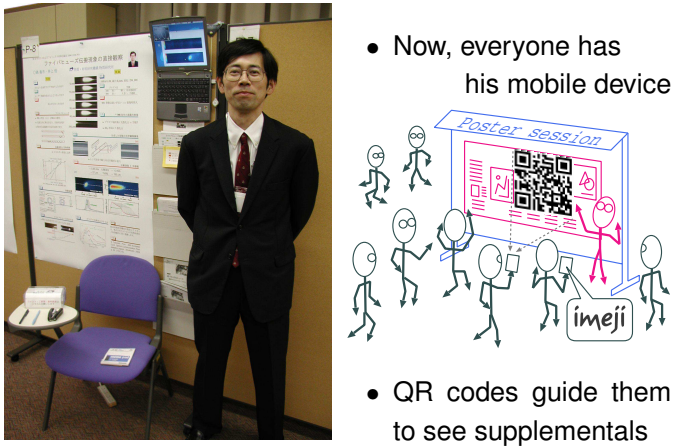
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**Support trust-building**      Necessary link creation

(3) & (4) should be automatically created

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**Support trust-building** | **A poster session in 2004**



- Now, everyone has his mobile device
- QR codes guide them to see supplementals

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**What I expect**

**Enhance traceability**  
*That gives me another chance to discover something*

**Support trust-building**  
*... every possible means to earn reputation*

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**Visualize reputation**  
*to see the public attention*

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**Support trust-building** | **outside the imeji community**

- Granting **doi** to self-archived items will come to service



by **Japan Link Center**,  
One of the Registration Agencies

cooperated by **NIMS**

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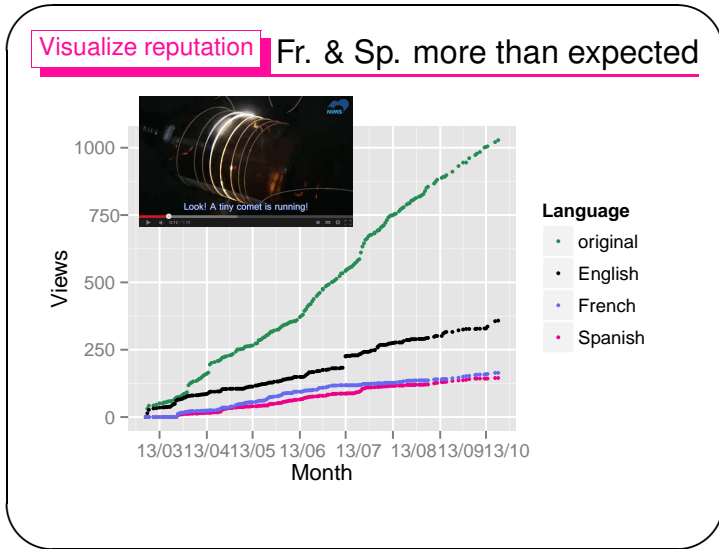
**Visualize reputation** | **A YouTube example**



Originally made as a PR video for an open campus day at NIMS

- Derived versions uploaded w/ English, French, & Spanish texts

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**SUMMARY**

*imeji* for a scientist

**Who I am**  
*a scientist in fiber optics dealing with many photos*

**What I did**  
*compiled a personal DB for managing movies & photos*

**What I expect**  
*bird's-eye view for local & public data distribution*

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**What I expect**

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**Enhance traceability**  
*That gives me another chance to discover something*

**Support trust-building**  
*... every possible means to earn reputation*

**Visualize reputation**  
*... further motivation for self-archiving*

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