Participatory Media



and

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Bericht über archäologische Arbeiten in Idikutschari und Umgebung im Winter 1902-1903

Motivation

- Internet is now recognized as an infrastructure for aggregating and sharing the power of people.
- User participation is one of the key concepts in "Web 2.0" movement.
- How can we design user participation for e-Culture?

Merits of Participation

Locality : 'where' is important.
Diversity : 'what' is important.

- Locality : local information that only people being there can collect (e.g. degree confluence project)
- Diversity : collect partial knowledge or personal ideas (e.g. Wikipedia)

Examples

- Locality
 - 1. Photographs of Past and Present
 - 2. DSR Imaginary Museum
 - 3. Citadel of Bam
- Diversity
 - 1. Senga Silk Road
 - Locality + Diversity
 - 1. Digital Typhoon and Typhoon Front

Case Study: Digital Silk Road

- The goal is to create the cultural digital archive of Silk Road.
 - Target users are not only experts, but also the general public (and kids).
- Web as a platform every archive and tool is designed for the Web.
- Integrating heterogeneous data, such as images, text, maps and videos.

DSR Project - Portal Site http://dsr.nii.ac.jp/

◎ Digital Silk Road - Digital Archives of Cultural Heritage - Mozilla Firefox ファイル(E) 編集(E) 表示(W) 履歴(S) ブックマーク(B) ツール(T) ヘルプ(H)

Digital Silk Road

Japanese

Digital Silk Road Project is a research project on creating digital archives of cultural heritage through collaboration between informatics and humanities. [Read More >>]

Latest News

<u>Senga Silk Road</u>

The site is open to the public (only in Japanese).
2007-08-23

Photographs of Past and Present

The site is open to the public. More photographs will be added.

Digital Silk Road

- Digital Archive of Toyo Bunko Rare Books
- <u>Citadel of Bam, Iran:</u> <u>Keeping Memories and</u> <u>Gathering Information</u> <u>for Post-earthquake</u> <u>Reconstruction</u>
- Senga Silk Road
- Silk Road Maps
- DSR Imaginary Museum
- Silk Road Narratives
- <u>Silk Road in</u>
- <u>Photographs</u>
- <u>Silk Road Terms</u>
- Digital Silk Road Kids

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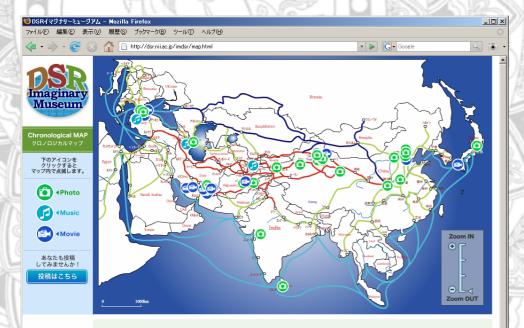
Photographs of Past and Present http://dsr.nii.ac.jp/past-present/

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How Can We Collect Them?

- You need to go to the place to take pictures, but, too many places to go by yourself.
- What you need is volunteers (or collaborators) being near the place.
- To ask volunteers, it is important to show small tasks that are clearly defined and easily to be done.

DSR Imaginary Museum http://dsr.nii.ac.jp/imdsr/



太古から続く東西の民族と文明を結ぶ壮大なシルクロードについて、皆さんと一緒に増り上げる、参加型オリジナルマップ、それが「DBRク ロノロジカルマップ」です。現代の国名を基準した地図に皆さんから投稿された情報を集積し、本サイトにで随時公開してまいります。ま た、投稿者の了解がられた情報に関いては、どなたでも自由に使用できる仕組みを構築していく予定です。今までにシルクロードを読いた 方々、シルクロードファンの方々、研究家、学術研究者など、皆さんご自身が所有するシルクロードに関する写真、音楽、ビデオを、本サ イトへ投稿してください。各地域の遺跡や寺院、少数民族の暮らし、様々な民族舞踊・音楽など、ご自身が所有するシルクロードに関する 情報を、本サイトに投稿。「DSRクロノロジカルマップ」創作者の一員にぜひご参加なお願いいたします。

地図上の以下のマークについて

- をクリックすると投稿された写真がご覧になれます。
- 🕝 をクリックすると投稿された音楽を聴くことができます。
- 🕞 をクリックすると投稿されたビデオをご覧になれます。

Collect photos, videos, and music recorded by the general people. Show them on a map with basic metadata. To become a collective album.

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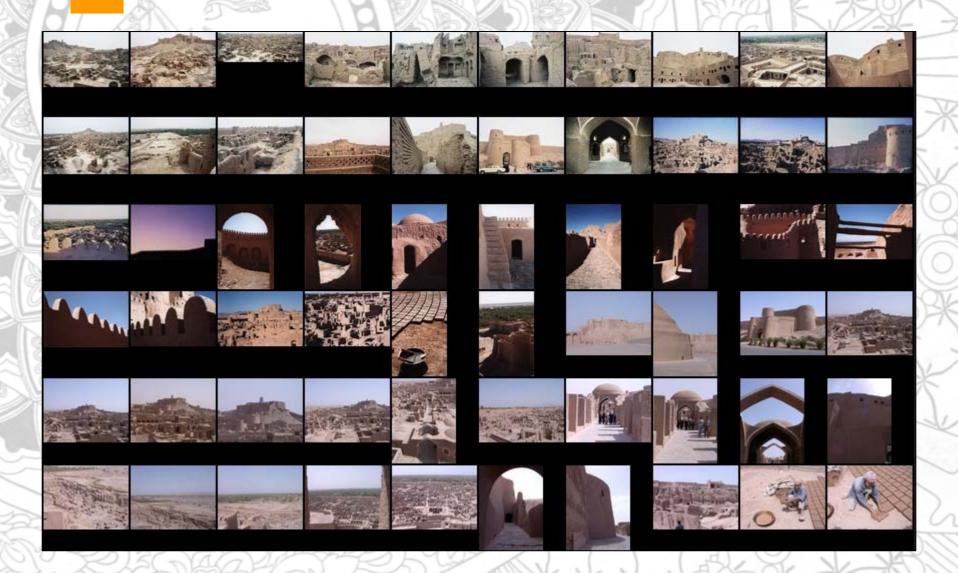
Citadel of Bam http://dsr.nii.ac.jp/bam/ Citadel of Bam, Iran, now World Heritage in Danger, was almost destroyed suddenly by the earthquake in December 2003.

• To keep record of Bam before the earthquake, we immediately started actions for collecting any materials recorded before the earthquake.

User Participation in Emergency

- We opened the Website just after 5 days of the earthquake.
- We finally collected 200+ photographs and one movie from volunteers across the world.
- The collection shows temporal changes of one specific location, difficult to be done by one person.

Collected Photographs



Before the Earthquake

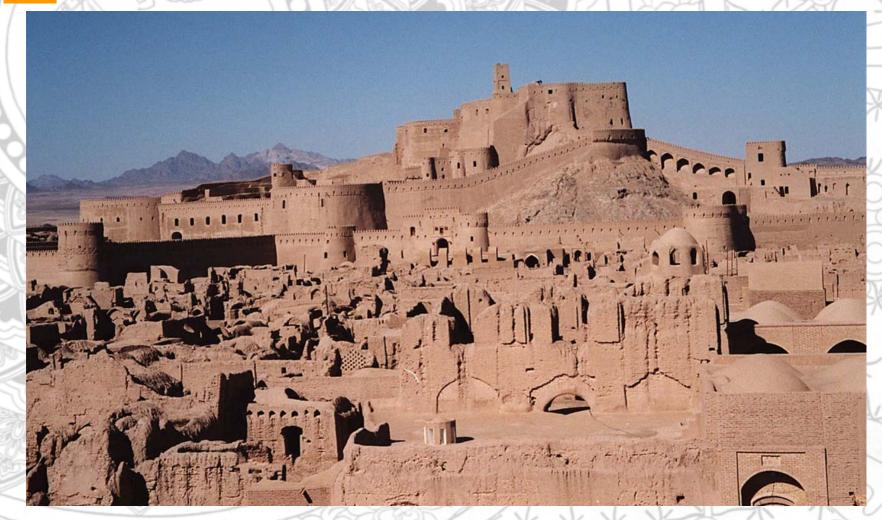


Image Coutesy: Linda Kudrnovska, December 2002

After the Earthquake...

Image Coutesy: UNESCO Tehran Cluster Office, January 2004

80 Years Ago...

http://dsr.nii.ac.jp/toyobunko/XIII-6-A-4/V-1/page/0219.html.ja

User Participation for Diversity

- User participation is for collecting deep knowledge and various ideas.
- Experts' knowledge is deep but partial, only within their expertise.
- Subjective impression of users is unique to users, and unpredictable.
- Participation leads to diversity.

Senga Silk Road http://dsr.nii.ac.jp/senga/



自由に画像を並べ替え、文化の変遷を見つけよう



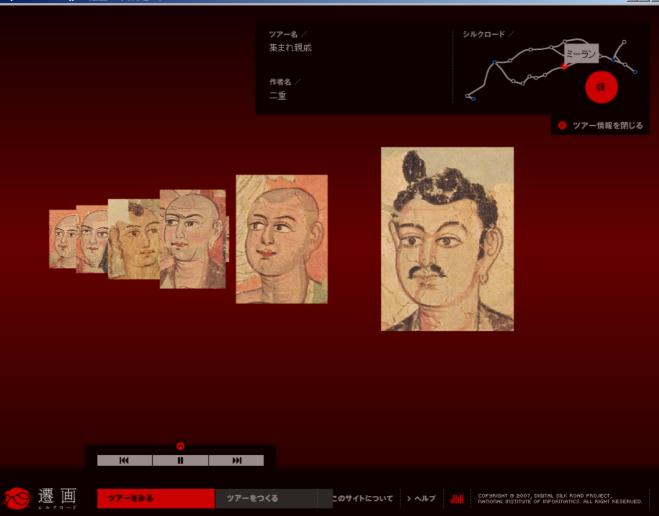


Users can make a tour (slideshow) by selecting interesting images and arrange them into a sequence. **User-created** tours show diverse ideas on interpreting images in a user context.

User-Created Tours

🕲http://dsr.nii.ac.jp - 遷画 - シルクロード - - Mozilla Firefox

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Locality + Diversity

- Locality: information which is local and only observable at user's site.
 Diversity: information described from user's own viewpoints.
- Locality and Diversity is combined for archiving on-going emergency events, in which many events occur simultaneously.

Case Study: Digital Typhoon

- Digital archive mainly for science. **Collection of typhoon satellite** images – 27 seasons, 144,000 images. Satellite images are integrated with heterogeneous data sources, such as sensor data, mass media news and participatory media.
- 850,000 p.v. per day at maximum.

Digital Typhoon

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Typhoon Database	Meteorolo	ogical Satellite Images
 Search by Metadata Search by Date / Season Search by Name / Number 	200 www.digital-typhoon.org 2007-08-29 22:00 UTC	07-08-29 23:00 (UTC)

Diverse Users and Usage

- Searching the past database, mainly for learning from historical data in research and education.
- Checking the latest information, mainly for supporting decision making by industry and government.
- Obtaining alternative information that mass media does not report.

Why User Participation?

- Satellite images are not enough to know about events on the ground.
- Mass media news are not enough to know about events at many places.
- Sensor data (AMeDAS) are not enough to know people's reactions.
- Participatory media can compensate the lack of information.

Typhoon Front http://front.eye.tc/



「台風前線」は、参加者が発信する最前線の台風情報をダイナミックに可視化する、ライブ感溢れるユーザー参加型サイトです。[さらに詳しく...]

■ <u>台風への眼(トラックバック版)</u> ← 台風前線の情報をFlash不要な形式で提供

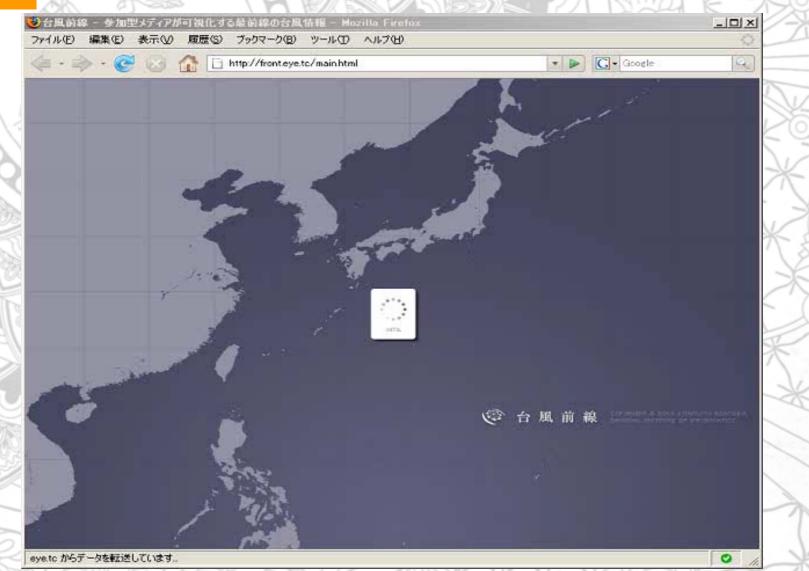
- <u>デジタル台風:台風画像と台風情報</u> ← リアルタイム台風情報と過去データベース
- <u>デジタル 台風: 台風 情報(気象庁と米軍JTWC)</u> ← 各国が発表する台風情報
- <u>デジタル 台風:リンク集</u> ← 気象庁等による専門的な台風情報と一般知識
- <u>デジタル 台風: ニュース・ウェブログ</u> ← 個人の 視点でまとめた 台風 情報ブログ
- <u>新着情報</u> ← 最近のニュース

サイト名称「台風前猿」について

気象学には「台風前線」という言葉はありません。気象学的には前線とは暖かい空気と冷たい空気が接す る境界を指す言葉ですが、台風はそもそも暖かい空気のみで成り立っているため前線に相当する部分は 存在しません。本サイトでの「前線」は「第一線」という比喩的な意味(例えば桜前線と同じ)で使っておりま すので、気象学用語とお間違えなきようご注意下さい。

Trackbacks from weblogs. Geographic coordinates are based on zip codes. Mobile mails are acceptable from Sep. 2007.

How People Participated?



Participatory Media

- Local and personal information has been aggregated in near real-time.
 Personal information may not be so reliable, but is more emotional and speaks to the heart.
- Linkage of objective and subjective information will create a multi-facet information source.

Summary

- User participation has a large impact on the Internet, and e-Culture is better to take part in this movement.
- DSR project realized some user participation in a cultural domain.
- Digital Typhoon project challenged more active user participation in a scientific domain.

Future Work

- Typhoon Front 2.0 will be released in the beginning of September, 2007 at http://front.eye.tc/.
- Promoting diversity and raising quality (and blocking spams) at the same time is a challenging issue.
- Design a system so that participation itself is entertaining and rewarding.

Acknowledgment

- DSR project is partially supported by JSPS Grant-in-Aid for the Publication of Scientific Research Results (Database).
- Digital Typhoon project is partially supported by a research grant from
 Research Organization of Information and Systems, and other grants.
- Many thanks for those who participated in various participatory projects.