WebdataVisual, *WebdataVoice* and *WebdataNow*: Three Tools to Integrate New Types of Data into Web Surveys

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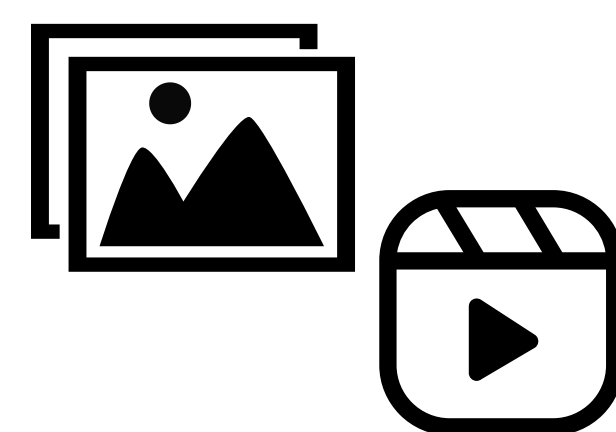
WebdataVisual	*WebdataVoice*	*WebdataNow*

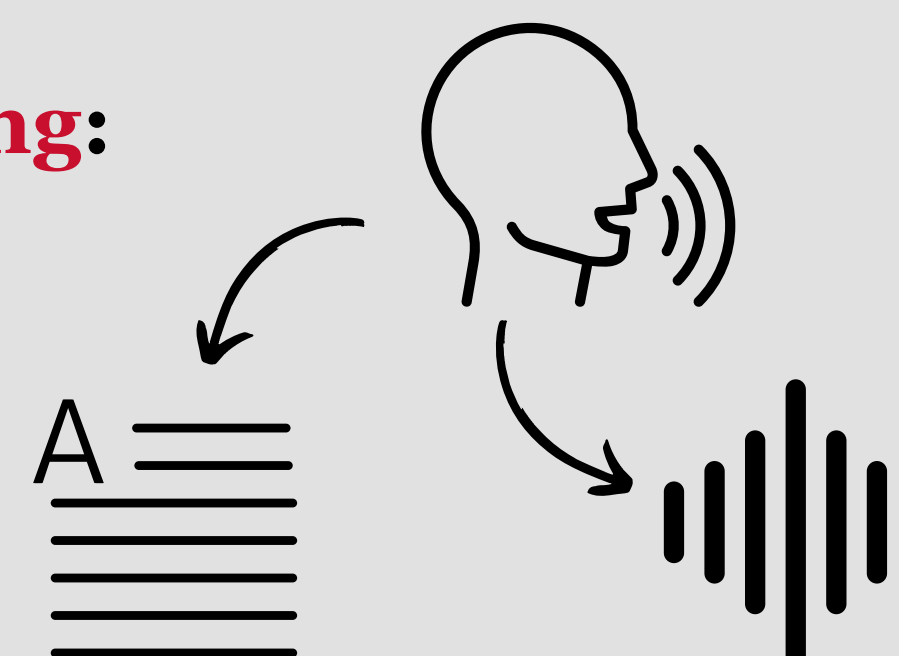## WHICH NEW DATA CAN WE COLLECT USING THESE TOOLS?

Visual data:
- Images or videos
- **Already stored** or **produced during** the survey

Answers provided by speaking:
- Dictation
- Voice recording

In-the-moment-surveys (ITMS) triggered by **passive data**:
- Metered data
- GPS data

WHAT ARE POTENTIAL BENEFITS OF THESE NEW DATA?

For **researchers**:
- Reducing errors, e.g. errors due to recall, social desirability or satisficing
- Adding more, missing and new data

For **respondents**:
- Less effort
- Pleasant
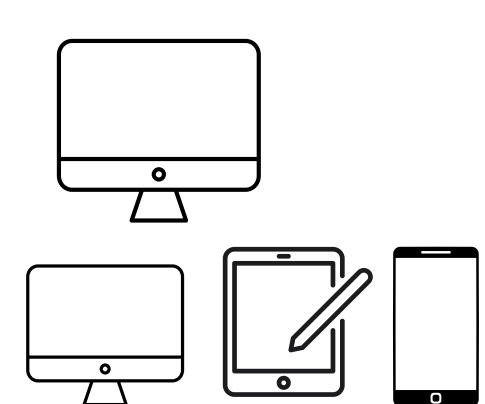- User-friendly

HOW DO THESE TOOLS WORK?

(Example of image upload)

1. **For previously stored files:**
   - Drag and drop
   - Copy-paste
   - Browse and select

2. **For files created during the survey:**
   - A button to open the camera

(Example of voice recording)

- **Participants can check and modify answers**
  - Shared with researchers as text (dictation) or recording (voice recording)

- **Based on HTML and JavaScript**
- **Building on previous tools** (e.g., SurveyImage)
- **A variety of customizable features**
  - Examples of shared features: number and deletion of files, size of files, types of files/methods
- **Data are stored in a separate storage system (e.g. AWS)**
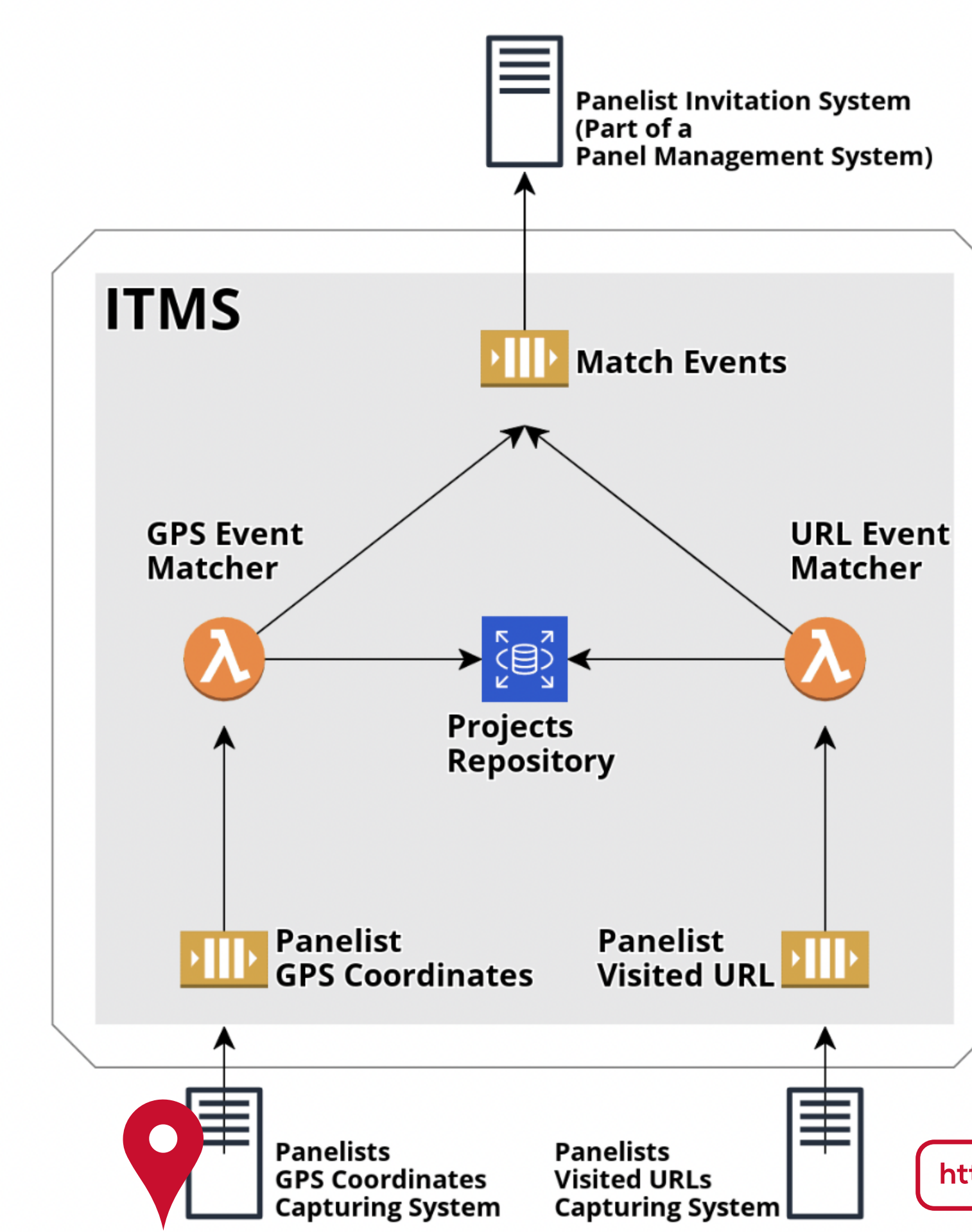
- **Program code in Java** for helping to send a survey when an event of interest is detected
- **Necessary to define a list of events of interest that trigger the survey:**
  - Meter data: list of URLs
  - Geolocation data: GPS coordinates delimiting regions
- **Possible to customize other features**, e.g.:
  - Delay between the detection of the event and the survey invitation
  - Maximum time allowed to answer a survey

WHAT ARE THE MAIN LIMITATIONS AND CHALLENGES?

- **Privacy settings and security restrictions in some browsers and/or operating systems** (e.g., in PCs, Firefox, it is not possible to paste files when copied from the file explorer)
- **Problems with hardware** (poor camera or microphone quality)
- **Cannot be used if the web survey software does not allow the insertion of HTML and JavaScript**
  - Users may be redirected to another page and then returned
- **ETHICAL: Even if not requested, researchers may receive data that contain:**
  - **Information from third parties** (e.g., voice recordings/photos featuring another person)
  - **Sensitive and private information** that may endanger anonymity

- **Precision of the geolocalization**
  - Varies from <10 meters to hundreds of meters
- **ETHICAL: The tool may receive personal data collected by other pieces of software** to decide on the invitations
  - Passive data are highly sensitive

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