



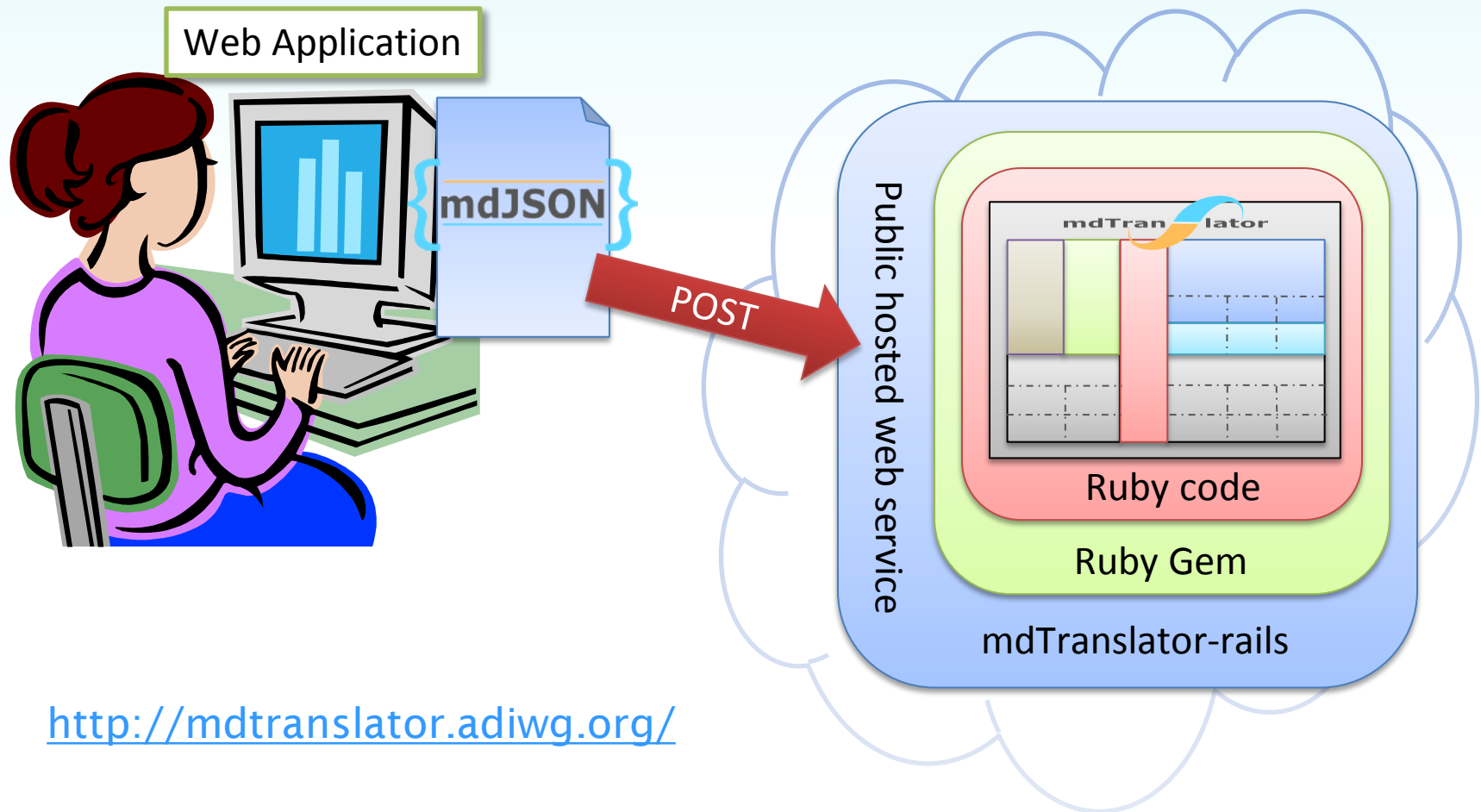
ISO Developer's Toolkit - Using mdTranslator API

2015 CDI Workshop

May 11, 2015

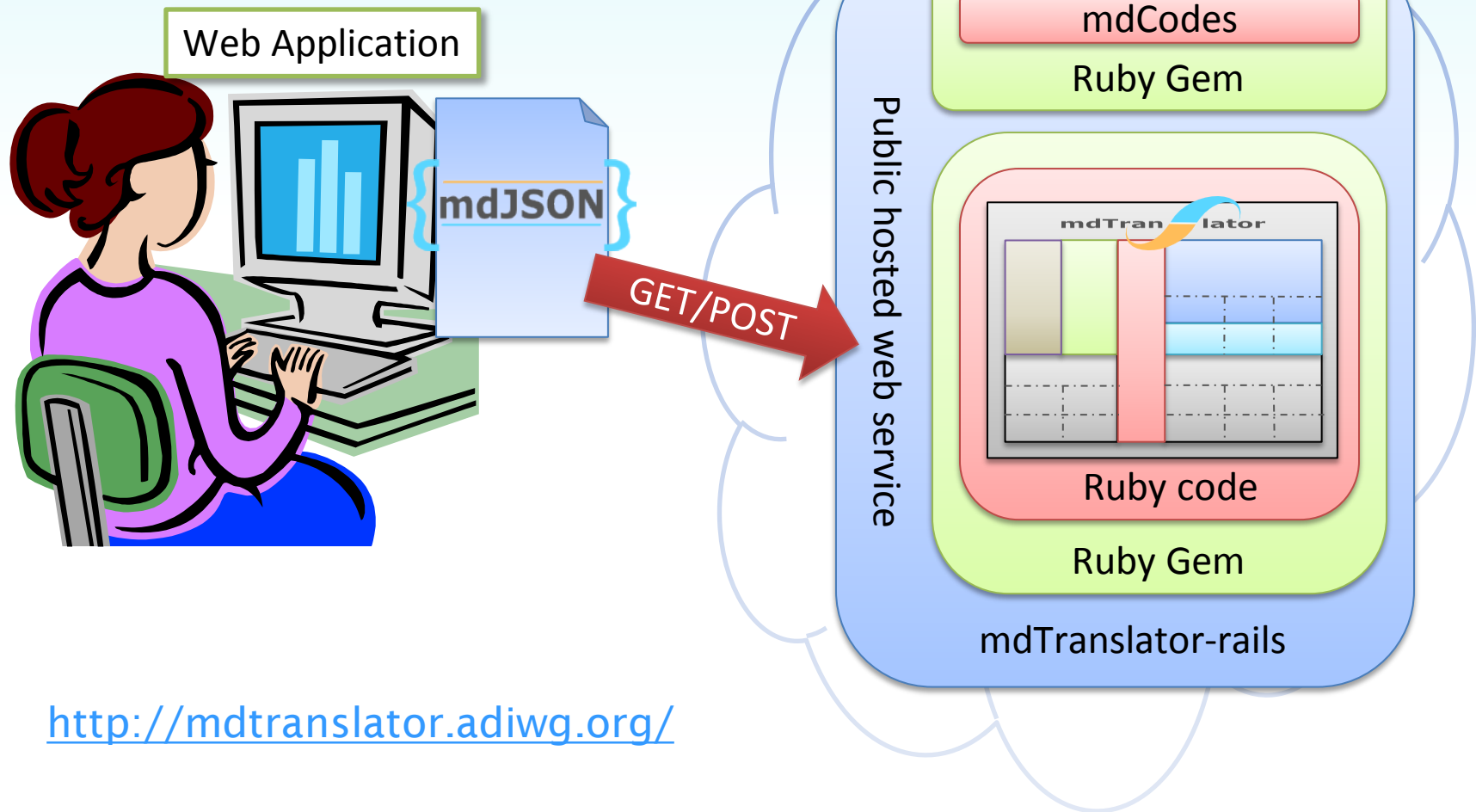
Stan Smith, USGS

mdTranslator as web service



<http://mdtranslator.adiwg.org/>

mdTranslator as web service



<http://mdtranslator.adiwg.org/>



mdTranslator 'Welcome'



- Welcome page - <http://mdtranslator.adiwg.org/>
 - Root for mdTranslator API
- Overview
- Background
 - Including description of the six ISO Metadata Developer's Toolkit components
- Links
 - mdTranslator resources
 - API <.../api/v1>
 - Readers <.../api/readers>
 - Writers <.../api/writers>
 - Related external resources
 - mdTranslator Home page <http://www.adiwg.org/mdTranslator/>
 - mdTools <http://www.adiwg.org/mdTools/>
 - GitHub repository <https://github.com/adiwg>
 - RubyGems libraries <https://rubygems.org/>



mdTranslator API



- API V1 documentation [.../api/v1/api](#) or [.../api/v1](#)
 - API is versioned to support legacy versions of API
 - API only supports GET and POST verbs
 - PUTs (updates) and DELETES not accepted
 - Cross domain requests handled by CORS (Cross-Origin Resource Sharing)
 - **Documentation and Lists**
 - GET
 - Informational web pages
 - API version 1 options [.../api/v1/options](#)
 - Interacting with codelists
 - **Translator method**
 - GET
 - Limited application due to URI size limits (2K)
 - POST
 - mdTranslator parameters [.../api/v1/demo](#)



mdCodes



- mdCodes is also a GitHub repo and RubyGem
- Designed for metadata content editors (mdEditor) to load codelist values
- Contains all ISO codelists needed by mdTranslator
- Current with 19115-2, 19115-1, including some ADIwg extensions
- Each codelist is maintained in a separate YAML file
 - “Yet Another Markup Language” or “YAML Ain’t Markup Language”
 - Suited for text editing structured data
 - Supported in Ruby, Python, Perl, grep
- Only static codelists are supported at this time
- We might extend to provide a consistent API for externally maintained hierarchical code lists such as:
 - GCMD Global Change Master Directory of Earth Science Keywords (NASA), ITIS, Several candidates from NOAA

mdCodes YAML file



- Static codelist example

```
1  ---
2  # mdJson codelists
3  # base codelist for ISO 19115-2, 19115-1
4  # extended for ADIwg
5
6  codelistType: "staticList"
7  codelistName: "iso_restriction"
8  source: "ISO"
9  sourceName: "MD_RestrictionCode"
10 extensible: true
11 description: "limitation(s) placed upon the access or use of the data)"
12 codelist:
13   - {code: "001", codeName: copyright, description: "exclusive right to the publication, production, or sale of t
14   - {code: "002", codeName: patent, description: "government has granted exclusive right to make, sell, use or li
15   - {code: "003", codeName: patentPending, description: "produced or sold information awaiting a patent"}
16   - {code: "004", codeName: trademark, description: "a name, symbol, or other device identifying a product, offic
17   - {code: "005", codeName: license, description: "formal permission to do something"}
18   - {code: "006", codeName: intellectualPropertyRights, description: "rights to financial benefit from and contr
27   - {code: "015", codeName: confidential, description: "not available to the public. NOTE Contains information th
28   - {code: "016", codeName: sensitiveButUnclassified, description: "although unclassified, requires strict contro
29   - {code: "017", codeName: in-confidence, description: "with trust"}
30   - {code: "adiwg001", codeName: threatenedOrEndangered, description: "information could risk threatened or endan
31   - {code: "adiwg002", codeName: traditionalKnowledge, description: "information protected by American Indian or
32   - {code: "adiwg003", codeName: personallyIdentifiableInformation, description: "information that can be used to
33
```


mdCodes API



- .../api/codelists – use chrome w/ JSON formatter plugin
 - All codelists and values <.../api/codelists>
 - All codelists and values <.../api/codelists?format=json>
 - ISO CT_CodelistCatalogue <.../api/codelists?format=xml>
 - All codes with definitions <.../api/codelists?definitions=true>
 - Add a JSONp wrapper <.../api/codelists?callback=myCall>
 - Single codelist .../api/codelists/iso_restriction
 - Single codelist with definitions .../api/codelists/iso_mediumName?definitions=true

Questions?

