

“Food for thought”

Owen Barder
October 19, 2010

Blog: www.owen.org/blog

Twitter: [@owenbarder](https://twitter.com/owenbarder)

Podcast: developmentdrums.org

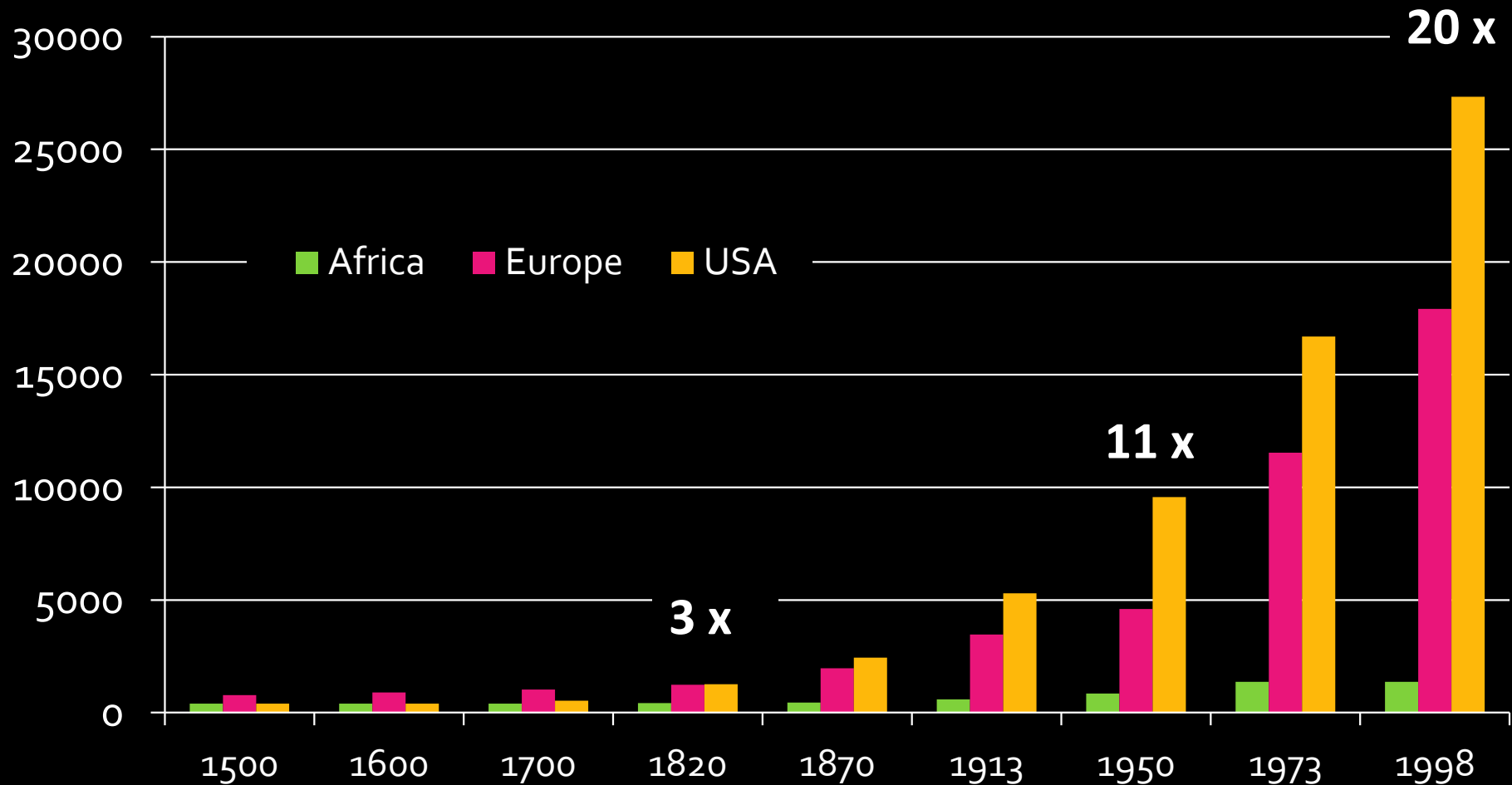
Email: owen@devinit.org

Conference hashtag: [#sfaddis](https://twitter.com/sfaddis)

Roadmap

- Why is knowledge important for development?
- What does this mean for K₄D?

Income per head since 1500



\$US in 1990 prices – source Maddison (OECD)

Knowledge diffusion
enables the poor
to catch up.

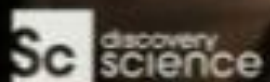
We deal with difficult problems

Some problems are so complex that you have to be highly intelligent and well informed just to be undecided about them.

Laurence J. Peter

Wicked problems

- Difficult to define clearly
- Many interdependencies, multi-causal
- Unforeseen consequences
- Often not stable
- No clear solution
- Socially complex
- Not the responsibility of any single organization
- Involve changing behaviour



Professor Steve Jones
University College London

All successful
complex systems are
the result of evolution.

- Development is a “wicked problem”
- “Almost impossible” problems are solved by evolution not design
- Evolution requires variation and selection

- Evolution is about information (eg genes).
- Variation & selection means
 - Diversity
 - Engagement
 - Feedback
 - Learning

e.g. Report cards in Uganda

- Randomised trial in clinics
- NGO report cards & public meetings
- Impressive results
 - Waiting time decreased
 - Doctor and nurse absenteeism plummeted
 - Clinics got cleaner; fewer drugs stolen
 - 40-50% more children vaccinated
 - 33% fewer children died under the age of five
 - Saved 550 lives (in area of 55,000 households).

As change-makers
we should not try to
design a better world.
We should make better
feedback loops.

Knowledge drives
development.

Diversity, engagement,
feedback and learning
improve institutions and so
promote development.

What does this mean for
K4D?

About
Governance
Membership
Media
Programs
Meetings
Publications
Learning
Tools
Partners
Thematic
Vacancies
Visiting
Youth
Gender

Search
Search
Google
- Popular

Save
Screen
for view
[t]Text



Done

33rox

work
ange
er



National Oceanic and Atmospheric Administration's

National Weather Service

[Site Map](#)

[News](#)

[Organization](#)

[Search](#)

[NWS](#) [A](#)

Local forecast by
"City, St"

City, St

XML RSS Feeds

Warnings

Current

By State/County...

UV Alerts

Observations

Radar

Satellite

Snow Cover

Surface Weather...

Observed Precip

Forecasts

Local

Graphical

Aviation

Marine

Hurricanes

Severe Weather

Fire Weather

Text Messages

By State

By Message Type

National

Forecast Models

Numerical Models

Statistical Models...

MOS Prod

GFS-LAMP Prod

[Home](#) > [NDFD](#) > NDFD SOAP Service

National Digital Forecast Database (NDFD) Simple Object Access Protocol (SOAP) Web Service

NOAA's National Weather Service offers several XML services

[Forecasts](#)||[Watch/Warnings](#)||[Current Observations](#)||[Tropical Cyclone Advisories](#)||[Storm Prediction Center Forecast Products](#)||[Change Notices](#)

1. [What is NDFD XML?](#)
2. [Why provide an NDFD XML service?](#)
3. [How often is NDFD XML updated?](#)
4. [How is NDFD XML generated?](#)
5. [What does NDFD XML contain?](#)
6. [How Do You Use the Web Service?](#)
7. [What if I need lots of NDFD data or find the web service too slow?](#)
8. [What if I prefer to use REST or WFS to access NDFD web services?](#)
9. [NWS XML Services Change Notices](#)

What is NDFD XML?

[National Digital Forecast Database](#) (NDFD) Extensible Markup Language (XML) is a service providing the public, government agencies, and commercial enterprises with data from the National Weather Service's (NWS) digital forecast database. This service, which is defined in a [Service Description Document](#), provides NWS customers and partners the ability to request

Done

Analogous DWML

```
<dwml version="1.0">
<head>
  <product srsName="WGS 1984" concise-name="digital-zone" operational-mode="official">
    <creation-date refresh-frequency="P1H"> 2003-10-22T15:30:03Z</creation-date>
  </product>
  <source>
    <more-information>http://www.crh.noaa.gov/fps/MapClick.php</more-information>
  </source>
</head>
<data>
  <location>
    <location-key>point1</location-key>
    <point latitude="38.0" longitude="-78.0"/>
  </location>
  <time-layout time-coordinate="UTC" summarization="none">
    <layout-key>k-p12h-n3-1</layout-key>
    <start-valid-time period-name="This Afternoon">2003-10-15T12:00:00Z</start-valid-time>
```

```
    <end-valid-time>2003-10-16T23:59:59Z</end-valid-time>
    <start-valid-time period-name="Saturday">2003-10-16T12:00:00Z</start-valid-time>
    <end-valid-time>2003-10-17T23:59:59Z</end-valid-time>
    <start-valid-time period-name="Sunday">2003-10-17T12:00:00Z</start-valid-time>
    <end-valid-time>2003-10-18T23:59:59Z</end-valid-time>
  </time-layout>
```

Colorado 4-H Youth Development - Microsoft Outlook

File Edit View Go Tools Actions Help Adobe PDF

New X Reply Reply to All Forward Send/Receive SnagIt Window

Mail

Favorite Folders

- Inbox (1539)
- Unread Mail
- Sent Items
- Inbox in lamar.colostate.edu

Mail Folders

- All Mail Items
- Mailbox - Goodman, Darrin
- Deleted Items (80)
- Drafts (26)
- Inbox (1539)
- Junk E-mail
- Outbox
- RSS Feeds
- Colorado 4-H Youth Development
- Sent Items
- Search Folders
- Archive Folders
- lamar.colostate.edu
- Local Folder
- Completed (123)
- Deleted Items
- Extac Listserv (88)
- Important Items (1)

Mail

Calendar

Contacts

Tasks

Notes

Colorado 4-H Youth Development

Search Colorado 4-H Youth Development

Click here to enable Instant Search

Arranged By: Date

Newest on top

Yesterday

- Colorado 4-H Youth Development
Going Green with Ford and 4-H Mon 9:08 PM
- Colorado 4-H Youth Development
Operation: Military Kids Team Up With 4-H Foundation Mon 9:07 PM

Going Green with Ford and 4-H

Colorado 4-H Youth Development

Click here to view the full article in your default Web browser or to download the article and any enclosures.

Posted On: Mon 4/14/2008 9:08 PM

The Rocky Mountain Ford Stores have donated a 2008 Ford XLT F150 4x4 pickup truck to the Colorado 4-H Foundation to help raise funds for 4-H. The truck runs either on gasoline, or on E-85 Ethanol fuel, a cleaner burning fuel alternative to gasoline. [Read more...](#)

[View article...](#)

Enclosures:

[012808 BIDbonus GoingGREENwithFORDand4-H](#)
(878 KB)

http://www.colorado4h.org/news/08/ford/012808_BIDbonus_Goin

To-Do Bar

April 2008						
S	M	T	W	T	F	S
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

4-H Curriculum Committee Meeting
> 491-1204
11:00 AM - 12:00 PM

Mandolin and Gloves
12:00 PM - 1:00 PM
Bring back from lunch

In Class
Wed 10:00 AM - 11:00 AM
Physiology 103

Arranged By: Start Date

Type a new task

Today

- 2008 Celebrate Colorad... ☐
- Camp Tobin ☐
- header for Grandparent... ☐
- Judging sheets ☐
- State Conference Docu... ☐
- Energy page and align... ☐
- 4HOnline Demo Inform... ☐
- Defcon 15 Sessions ☐
- APC April meeting mater... ☐
- 4-H Truck Raffle Tickets ☐
- Upload this stuff ☐

Online with Microsoft Exchange

See more from [Development \(13\)](#)

Knowledge for development

Expired	Tired	Wired
Secrecy	Communications	Engagement
Explain	Consult	Crowd-source
Protect information	Collect information	Connect people
Irrelevant information	Relevant information	Information in context
Private databases	Public databases	Open data standards
Inappropriate technology	Appropriate technology	Multiple technologies
Press releases	Websites	Infomediaries
No evaluation	Top down evaluation	User feedback
Information silos	Search engines	Social filtering
Do nothing	Do it all	Start, then iterate
Technology stupid	Technology driven	Technology supported
Bad data	Quality control	A thousand eyes

Blog: www.owen.org/blog

Twitter: [@owenbarder](https://twitter.com/owenbarder)

Podcast: developmentdrums.org

Email: owen@devinit.org

Conference hashtag: [#sfaddis](https://twitter.com/hashtag/sfaddis)