

Business and Strategy | Mori Sugimoto | FEBRUARY 7 2013

Benefits and challenges of Drupal Adoption for Multinational Organisations



About me



Name: Mori Sugimoto (dokumori)

Using Drupal for: 6 years

Based in: London, UK

Nationality: Japanese

Works for: Acquia



About Acquia



- Expert 24/7 Drupal support
- Optimised Drupal hosting
- Foster Drupal adoption





We are hiring!

acquia.com/careers









• What do you do for your job?





• What do you do for your job?





- What do you do for your job?
- What's your experience with Drupal?





This presentation is about:

Drupal adoption for multinational organisations



This presentation is NOT about

multi*lingual* Drupal



Outline:





Outline:



Benefits of adopting Drupal



Outline:



Benefits of adopting Drupal

Challenges and solutions





Benefits of adopting Drupal





...or disadvantages of NOT adopting Drupal



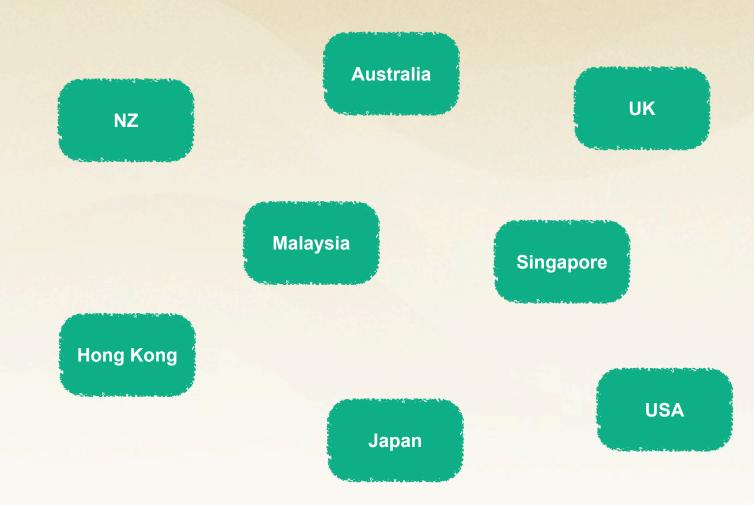


A typical scenario:



Each country office has its own website

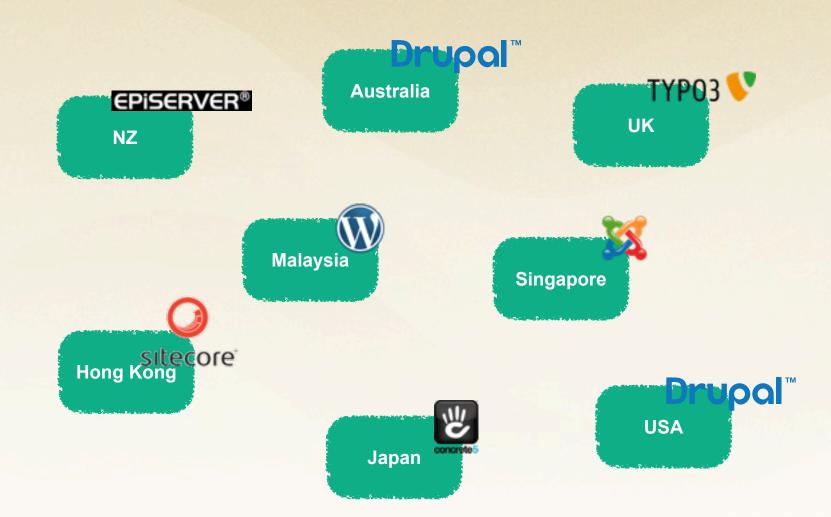






Each country office has its own website







Each website is built from scratch



- 1. Brainstorming
- 2. Requirements definition
- 3. Design
- 4. Development
- 5. Content population
- 6. Various tests
- 7. Launch
- +100 meetings
- +500 emails (of which only 1/20 are actually read)



n = # of offices



If you are using proprietary CMSes



License fees * n

n = # of offices



Building each site from scratch and / or on different CMSes is

inefficient





Problems of having multiple CMSes





Problems of having multiple CMSes

Poor reusability





Problems of having multiple CMSes

Substandard quality = low maintainability





Problems of having multiple CMSes

Multiple bugfix / security updates





Problems of having multiple CMSes

Trainings for editors





Maintaining multiple CMSes is

inefficient



The cure: Build all the sites on a Drupal-based platform





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Drupa "- based platform



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UK	NZ	Singapore	Australia
Hong Kong	Japan	USA	Malaysia

Drupa "- based platform





How can Drupal make it simple?



Drupal can simplify it





Drupal can simplify it

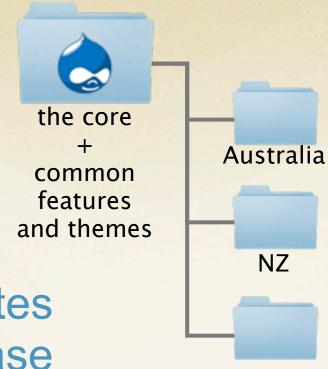


Drupal lets multiple sites share a single codebase



Drupal can simplify it





Drupal lets multiple sites share a single codebase



Config, site-specific features and themes





Benefits of a Drupal-based platform





Benefits of a Drupal-based platform

High reusability





Consistent look-and-feel





Rapid construction of new sites





Lower maintenance overhead





Simplified hosting requirements



Cost efficiency



Platform

Design / theme

Features

Documentation

Training



Cost efficiency



Platform

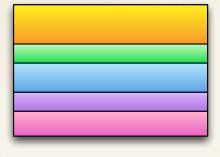
Design / theme

Features

Documentation

Training

Initial development



Transitional phase



Platform in place

The ratio of costs required for new sites





Improved efficiency

Better ROI





Lovely. But is it easy and straight-forward?





Lovely. But is it easy and straight-forward?

Technologically yes.
But there are other challenges.



Challenges in different phases



- 1. Preparation
- 2. Development
- 3. Operation and maintenance





1. Challenges during the preparatory phase

Consensus

Selecting the right vendors





No one vendor is capable of developing all the sites

Challenge:

Consensus within the company





Each country office is autonomous









Share the image of success





Share the image of success





- Share the image of success
- Understand restrictions





- Share the image of success
- Understand restrictions





- Share the image of success
- Understand restrictions

Understand the benefits





No one vendor is capable of developing all the sites

Challenge:

Selecting the right vendors





The vendors must be highly competent





Main: builds / maintains the platform





Main: builds / maintains the platform





Main: builds / maintains the platform

Adequate resources





Main: builds / maintains the platform

- Adequate resources
- Highly capable in managing projects





Main: builds / maintains the platform

- Adequate resources
- Highly capable in managing projects
- Highly capable in managing communication and expectations





Local: builds local sites





Local: builds local sites

Experienced, standard-compliant





Local: builds local sites

- Experienced, standard-compliant
- Good communication





Ensuring vendors got what it takes...





Ensuring vendors got what it takes...

 Clearly define a set of acceptance criteria for the end product





Ensuring vendors got what it takes...

- Clearly define a set of acceptance criteria for the end product
- Request for references





2. Challenges during the development phase

- Project management
- Maintaining quality





Challenge:

Project management



Challenge: Project Management



- Complex organisational structure
- Multiple stakeholders in multiple dept.
- Conflicting interests / requirements







Suggested solutions:

- Simplify communication
- Clarifiy responsibility
- Review frequently
- Provide better transparency
- Collaborate





In one word:

Agile





Maintaining quality





Challenge:

Ensuring scalability



Challenge: Ensuring scalability



- Loosely coupling features
- Minimise site-specific, tightly coupled features

Reference:

https://www.sandcamp.org/features-they-work-youre-just-doing-it-wrong-or-loosely-coupled-features





Challenge:

Ensuring high maintainability







Adhere to Drupal best practices

Coding standards / commenting



Challenge: Maintainabilty



- Configuration in repository
- Code driven development

References:

http://drupal.org/project/features

http://api.drupal.org/api/drupal/modules%21system%21system.api.php/function/hook_update_N/7
http://archive.org/details/CodeDrivenDevelopmentUsingFeaturesEffectivelyInDrupal6And7













Github - pull requests







- Github pull requests
- Gitolite directory access







- Github pull requests
- Gitolite directory access
- Gitlab merge requests







Avoid maintaining multiple versions







Automated tests / CI

Site audit







Sufficient documentation





Challenge:

Security



Challenge: Security



 Regularly check for common errors in code and configuration

Security audit





Challenge:









Common sense stuff:





- Common sense stuff:
 - Internal caching (e.g. Views)





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 - External caching (e.g. Varnish)





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- Common sense stuff:
 - Internal caching (e.g. Views)
 - External caching (e.g. Varnish)
- Perform a load test on the entire platform as a new site launches





Many of the checks can be automated...





Many of the checks can be automated...

So we did!



https://insight.acquia.com/instant-insight







 Change, release and deploy management (governance)

Support





Challenge:









Change management





Change management





- Change management
- Release management





- Change management
- Release management





- Change management
- Release management
- Deployment management





Use RACI to clarify roles and responsibilities

RACI = Responsible, Accountable, Consulted, Informed

Example:

Category	Task description	Customer SA	Customer LO	Main Vendor	Acquia	Local Vendors
Guarding the CMS codebase	Accept pull requests	Α		R	С	I
	Push the code to Acquia Cloud	R, A		I, C	С	I
	Deploy	R, A	I	I	C, I	I
	Test (dev)		Α	С	С	R
	Test (stage)	I	R, A	С	С	I
	Test (prod)		R, A	I, C	С	I





Challenge:

Support



Support







Application-level support for editors





Application-level support for editors





- Application-level support for editors
- Support for technical issues





- Application-level support for editors
- Support for technical issues





- Application-level support for editors
- Support for technical issues
- Support for hosting environment





- Application-level support for editors
- Support for technical issues
- Support for hosting environment

Make the reporting process simple for users





Support should be comprehensive





Finally...



Look out for:



 Legal requirements in different countries

Latency





That's all.





Thank you.





Questions?

Feedback:

http://sydney2013.drupal.org/benefits-and-challenges-drupal-adoption-multinational-organisations

