

World WTSP Catalogs of TRIZ Sites and Around-TRIZ Sites:

**We Can Learn A Lot through These Active
Information Sources**

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[1b] The World TRIZ-related Sites Project (WTSP):

Its Aims

World TRIZ Sites Project

Together ! Connected !!

- **To build Catalogs of TRIZ-related Sites**
 - **of each country** (in their own language, then in English) and
 - **of the whole world** (in English, then in many languages)
 - with appropriate (brief but close) **introduction of individual sites**
 - with **appropriate selection** of (useful and important) sites
 - **for various people** (unfamiliar, beginners, users, and experts in TRIZ)
 - in the field of **TRIZ and relevant methodologies**
 - as **reliable sources of information** (on theories, applications, activities)
- **To keep the Catalogs up-to-date**
 - accepting new and revised information regularly
 - revising all the Catalogs every two years
- **For promoting TRIZ and relevant methodologies further in the world**
- **By voluntary collaboration of many TRIZ colleagues in the world**

**Bottom-up
Strategy**

[2b] Evaluation of Sites

Internet surveys output messy information of hundreds of sites.

-- Hard to find real good ones.

We should evaluate every site even tentatively and select good ones for our Catalogs. Evaluation will be refined later by public reviews.

We use the following symbol marks with criteria.

◎ **Most important (about top 30) in World Catalogs**

○ **Important (about top 100) in World Catalogs**

□ **Worthy in World Catalogs,**

△ **Worthy in Country Catalogs,**

— **Insignificant/irrelevant.**

Criteria: Quality (reliable, correct, novel, original, comprehensive, up-to-date, ...)

Usefulness (resourceful, reference, handy, practical, ...)

Attractiveness (interesting, easy-to-understand, illustrative, ...)

Accessibility (open access, free/low charge, used by many, ...)

Scope (scope of the theme/field, scope of activities, ...)

[2c] Catalog Manuscripts Contributed by Country Teams

Bottom-up
Approach

Country / language	Author	Number of sites	
Japan (JP)	Toru Nakagawa	◎ 1, ○ 4, □ 5	from 92 sites Jul. 2019
Malaysia (MY)	Eng Hoo Tan	◎ 1, ○ 0, □ 4, △ 11	Jun. 2019
China P.R. (CN)	Runhua Tan	◎ 1, ○ 1, □ 13	Jun. 2019
Russian language (RUL)	Michael Orloff	◎ 10, ○ 15, □ 12	Aug. 2019
		◎ 10, ○ 16, □ 29	Aug. 2020

Many (30 or 40) countries have not contributed their lists of TRIZ sites.

USA, UK, France, Germany, Italy, Korea, Taiwan,

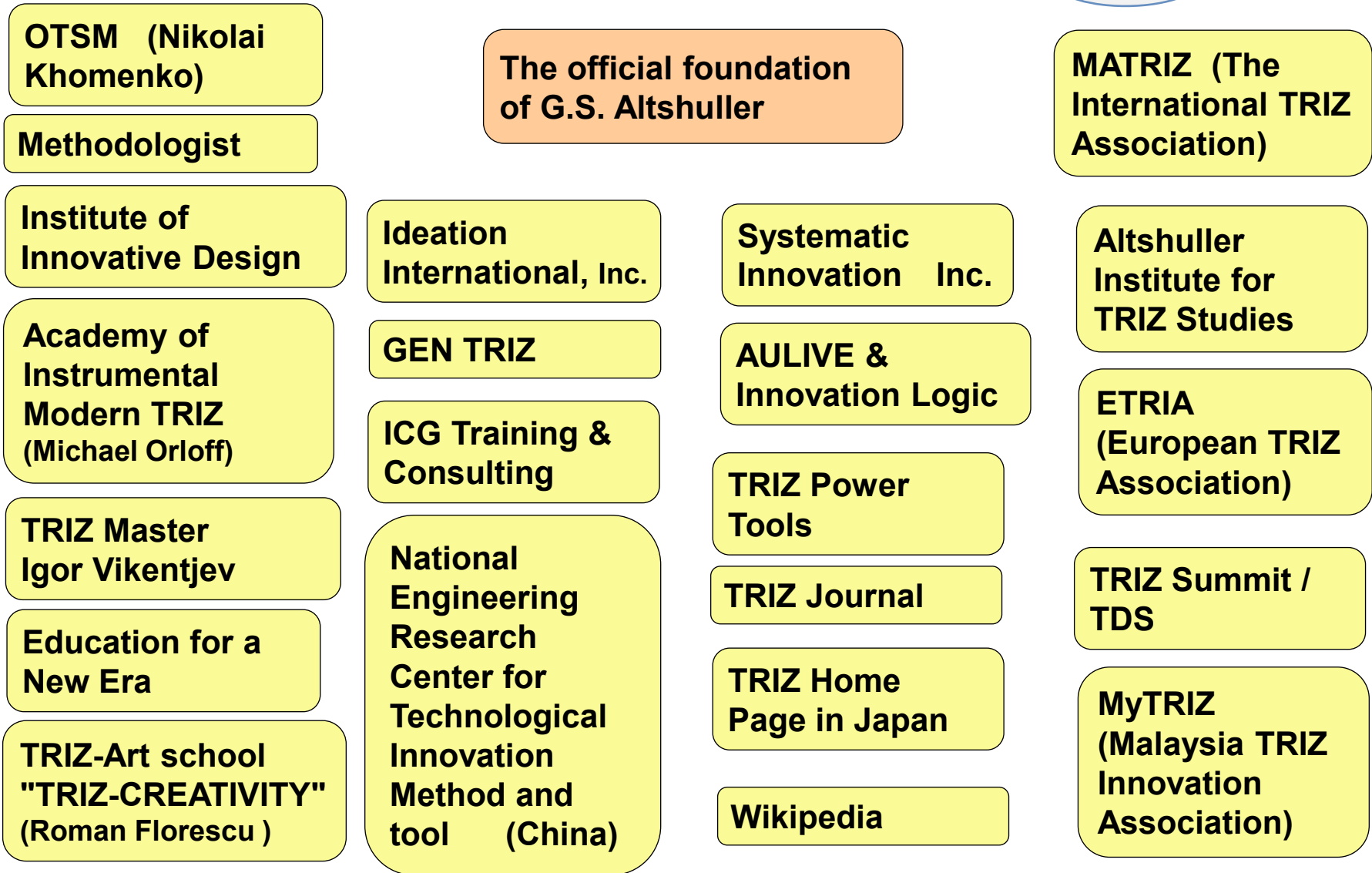
The WTSP project is voluntary based, proposed by Toru Nakagawa, and is supported by many TRIZ colleagues with **about 80 Members from 30 countries**. However, **very few of them actually work for WTSP and no WTSP Teams were formed**, because active TRIZ persons are always too busy for their official jobs and businesses.

So we had to shift our efforts towards Top-down Approaches. (Mar. 2019)

[2e] World TRIZ Sites Catalog

© 23 Most Important Sites

What other sites would you recommend?



Based on the manuscripts from only 4 countries and 2 cases of Internet surveys.

[2f] Building the WTSP Catalogs of AROUND-TRIZ Sites

WTSP Double pillars: 'TRIZ Sites Catalogs' and
'AROUND-TRIZ Sites Catalogs'.

**To cover the relevant areas widely
where TRIZ users want to/should refer.**

**People in such relevant areas will also use the WTSP Catalogs
and will get interested in and familiar with TRIZ.**

Separating these two, allowing some duplications, is practical for users.

We should make several Internet surveys with carefully chosen keywords.

Areas become much wider, where we are often unfamiliar or poor.

<==> There can be new findings in methods, applications,
organizations, site types, etc.



**Top-down
Approach**

[2g] Source data of Around-TRIZ Sites Catalogs

Toru Nakagawa, May - Sept., 2019

Top-down
Approach

Case	Search keyword (World, English)	Number of sites
TN3A	Creat* Think* Method*	◎ 1, ○14 □ 15, △3, – 85
TN3A2	Creative Think Method	◎ 1, ○15, □ 65, △33, – 56
TN3B	(Creative / innovative / Systematic) Problem Solve (Method / Process / Technique)	◎ 10 , ○26, □ 64, △ 33 , – 56
TN3C	Innovation (Process / Strategy / Method / management / Technology)	◎ 3 , ○36 , □ 78, △ 70, – 19
TN3D	(Quality / Value / Cost / Productivity) (Deploy / Engineering / Management / Control / Analysis) (Method / Technique / Theory / Process / "Case Study")	◎ 16 , ○38 , □ 86, △ 36, – 41
TN3E	(Patent / IP / "Intellectual Property") (Analysis / Protect / Circumvent / Mapping / Strategy)	◎ 5 , ○18 , □ 37, △ 15, – 17
(B2)	World Around-TRIZ Sites Basic Catalog ◎◎	◎ 33 , ○ 127 , (□ 19)

In addition, some of ◎◎ sites in the area of TRIZ (having some extensions) are included.

Also ◎○□ sites around TRIZ in Japan are included.

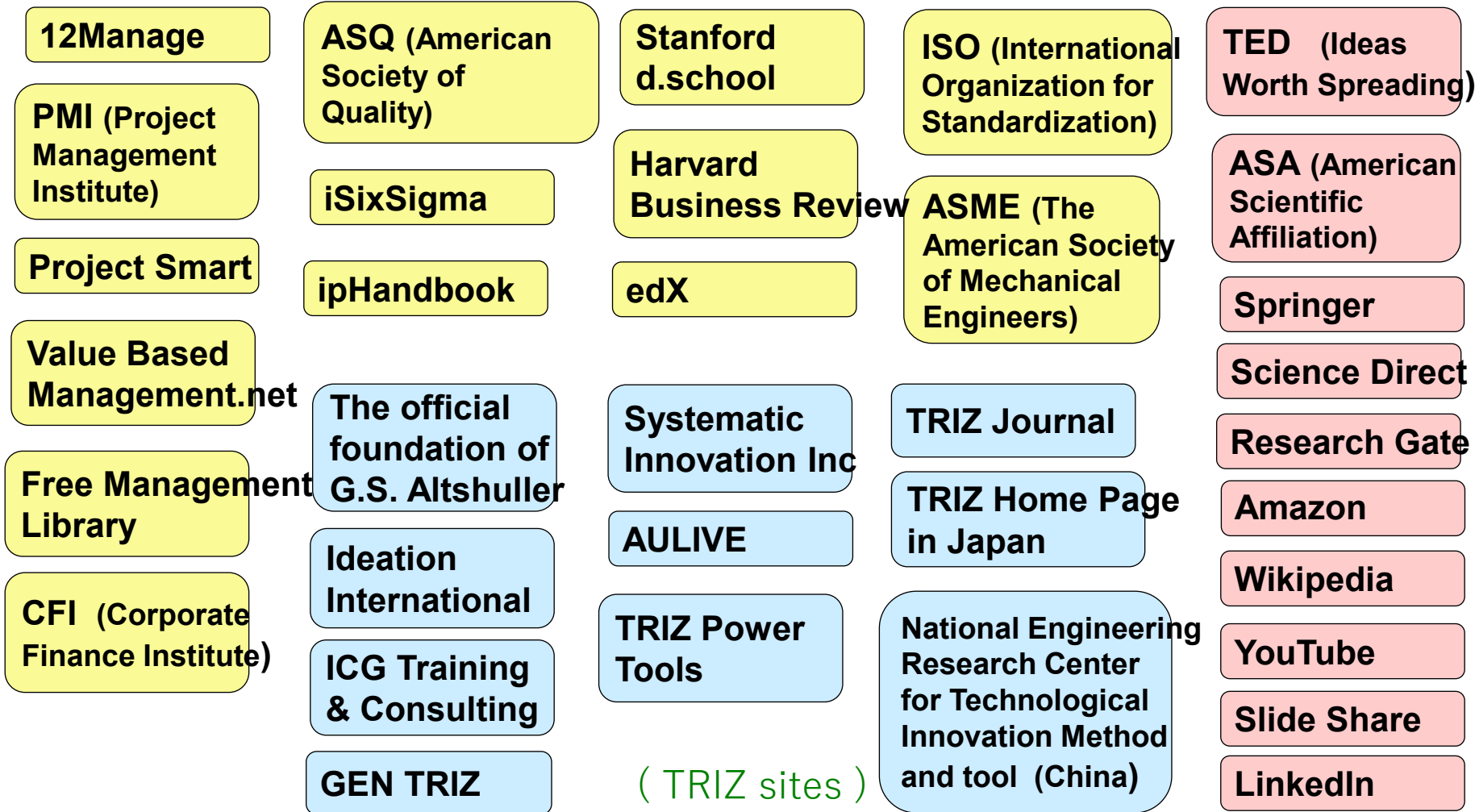
[2h] (B) World AROUND-TRIZ Sites Catalog

What other sites would you recommend?

◎ 33 Most Important sites (Beta Edition, Jun. 2020)

(Specific methodologies around TRIZ)

(General sites)



Selected from about 1000 sites (6 cases of intensive Internet surveys) and Annotated individually in free-format of 5-15 lines. (Better than World TRIZ Sites Catalogs.)

[3b] Structure of the World WTSP Catalogs (Users' View)

Beta Edition (Jun. 2020)

World WTSP Catalogs Top page

Various types of Indexes/Catalogs

Source Data Catalogs

Integrated World Indexes

Integrated World Catalogs for Print

Various countries

surveys for TRIZ Sites

Around-TRIZ Sites

Index-XX

Index-TN2a

Index-TN3b

(A) World TRIZ Indexes

(B) World Around-TRIZ Indexes

(AP) World TRIZ Catalogs

(BP) World Around-TRIZ Catalogs

(Index)

(Sites)

(Index)

(Sites)

Descriptions of sites

Sites-XX

Sites-TN2a

Sites-TN3b

Download in PDF, Print and Use on your PC

[4] Reflection for Further Enhancement

[4a] Three Basic Requirements for Any Catalog from Users

Cf. 'Catalogs of Good Restaurants', 'Catalogs of Sight-seeing Places', etc.

Req. 1: Collect good items (i.e. websites) widely, select them with evaluation, and show them in categories.

We are only half the way.

Collaboration by many TRIZ Colleagues is necessary.

Req. 2: Individual items should be introduced in a proper/fair manner briefly or closely so as to guide the readers/users to the items.

Insufficient.

We need collaboration by individual site owners. See next slides.

Req. 3: It should be easy for users to find one or many items which match their current interest/needs inside the Catalog.

No mechanism yet (except categorization with Roles of sites).

We want to design and implement some search mechanism.

[4d] Standard Form of Site Description to be filled by the Site Owner

Ex: Team: JP, Site Code: JP-01,

Site Name **	Ex. TRIZ Home Page in Japan (Toru Nakagawa)	
Site domain URL **	Ex. https://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/ (English), http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/ (Japanese)	
Site Location **	Ex. Japan	#
Site Language **	Ex. en, jp	#
Roles of Site **	Ex. (a2) Public Web site, (e1) Method developer, (a1) Dedicated for information sending	#
Evaluation **	Ex. ◎ (5 grades: ◎ ○ □ △ -)	#
Single-line Description *	Ex. Public Web site dedicated for TRIZ proliferation in Japan and in the world. Editor Toru Nakagawa	
Application phase *	Ex. (b) Problem finding and analysis phase, (c) Solution generation phase, (g) Others: Education	#
Application Fields *	Ex. (c) Engineering , (a) General/universal, (g) Humanity fields	#
Methods *	Ex. (e) Systems analysis, (g) Idea generation tools, (n) Modernized TRIZ methods; USIT method, Six-Box Scheme	#
Description of Introduction *	Ex. Active public site in TRIZ since 1998, publicizing many articles by various international authors besides the editor Toru Nakagawa. (Free format, in 5 - 10 lines)	
Further Detailed Information	(Optional) (Separate HTML file, Free format, 2-5 (or 10) pages in A4) Ex. SiteIntro-JP-01-THPJ.html (Written by Toru Nakagawa on Feb. 12, 2020)	
Note of description	Ex. Written by Toru Nakagawa (Site Owner), Feb. 13, 2020	

** Mandatory, * Desirable; #: Use codes for categorizations (See detail in the WTSP website).

[4g] Preparing Manuscripts of WTSP Catalogs

Manuscripts to be prepared by WTSP Teams

(b) Table of sites (.xlsx)
Basic data for indexing

(a) Descriptions of sites (.docx)

Convert into HTML

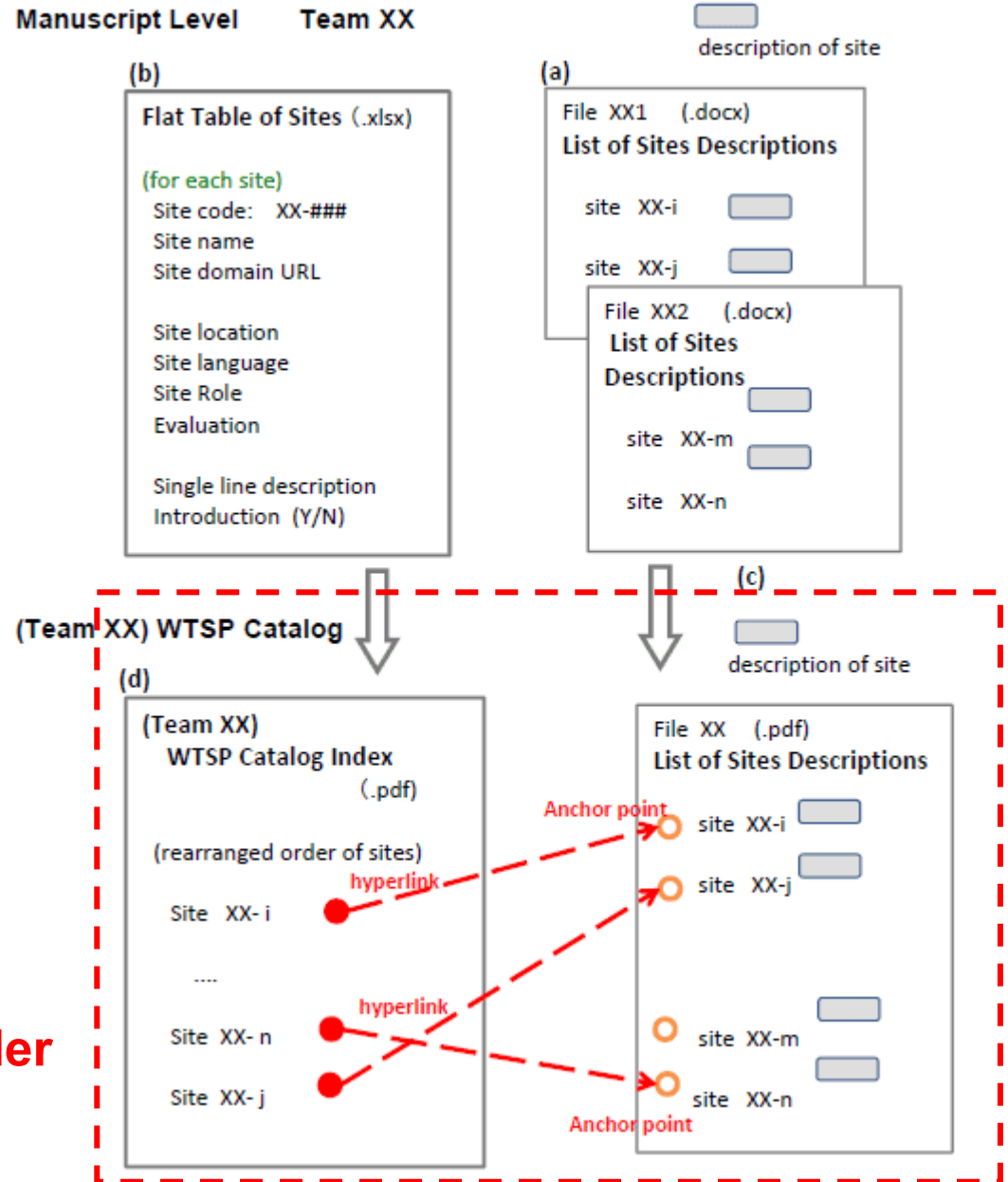
Country WTSP Catalog

(d) Index page (.html)

(c) Site description page (.html)

Submit to the WTSP Project Leader

World WTSP Catalogs



[5] Concluding Remarks

[5a] User's Evaluation

(Dr. Bill Fowlkes, Oct. 2019)

To the World TRIZ-related Sites Project (WTSP) Global Co-editors:

I welcome the work you are doing to collect, organize, describe and link to the many internet sites that are of interest to students and practitioners of innovative methods such as TRIZ.

I have created a new bookmark folder with links to the WTSP Catalogs of TRIZ sites and the WTSP Catalogs of AROUND-TRIZ sites, and I expect that I will be referring to them frequently.

The aggregation of these sites is much better than trying to find the data with a Google search, because the information is curated and brief descriptions are provided.

I encourage TRIZ providers and other content creators working in TRIZ related fields to participate in this project and make the World TRIZ-related Sites Project the best it can possibly be.

Dr. William Y. Fowlkes
VP, Analytics and Workflow Solutions | IP.com

Oct. 30, 2019

[5b] Some more final steps to the Goal of WTSP

Beta Edition of World WTSP Catalogs demonstrates our Goal.

It can be enhanced step by step;

Now, you can contribute to the WTSP project easily:

If you are a site owner: Write an introduction to your own site.

If you are a user: Make a list of sites you like/recommend.

If you are a TRIZ leader: Take the leadership of coordinating your people.

Then you all form a WTSP Team with a voluntary Team Leader and work together along the practice guide.

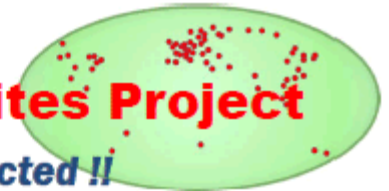
In a year, the Catalogs will get many users, from beginners to experts.

All your efforts are helpful for many people and fruitful for yourselves.

Let's work Together ! Connected !!

World TRIZ Sites Project

Together ! Connected !!





Thank you for your attention.

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Editor of "TRIZ Home Page in Japan" (in Japanese and in English)
<http://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/>

World TRIZ-related Sites Project (WTSP) Project Leader

Let's work Together ! Connected !!