

WTSP Catalogs Introduction 2022

World TRIZ-related Sites Project (WTSP)



Introduction to World WTSP Catalogs of TRIZ Sites and Around-TRIZ Sites

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Jan. 22, 2022



WTSP Website:

<https://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/eWTSP/>

Abstract:

- (1) **Catalogs of TRIZ-related Websites in the World** have been developed by a volunteer-based international project WTSP.
- (2) The Catalogs are now **available publicly** without charge both for interactive use at the WTSP site and for downloading, printing, and interactive use at user's PC.
- (3) The Catalogs cover various websites in the fields of **TRIZ** (including modernized TRIZ) and **around-TRIZ** more widely (i.e., creative problem solving in general, including quality/value/project management, IP, etc.).
- (4) Various websites dedicated for the **roles** of information sending, research, development, promotion, publishing, etc. of such TRIZ-related methodologies are collected.
- (5) Websites are found more useful **as units of information resources** than (smaller) webpages, papers, patents, etc. and (larger) journals, conferences, books, etc., because they are kept updated for many years with unity/quality/scope of information by some group or organization, in openly accessible forms.

(continue)

Abstract (continued):

(6) Individual websites are **introduced** briefly by surveyors/recommenders, and in one-page standard form and (optionally) much longer by the website owners.

(7) Websites are **evaluated** in respect to their quality/usefulness/attractiveness/accessibility/scopes/etc. and shown in **5 grades** (◎○□ for world level, △ for country level, and —).

(8) Current World WTSP Catalogs (**Beta Edition**) list 23 ◎ and 39 ○ websites in TRIZ while 33 ◎ and 127 ○ websites around TRIZ.

(9) We are working further to make our WTSP Catalogs **more useful and attractive** for users as well as professionals by voluntary cooperation of many colleagues in the world.

(10) Let's work Together ! Connected !!

[1] Introduction: Purposes/Aims and Basic Strategy

[1A] Purposes and Aims

Everybody **wants** to solve various (often difficult) problems in our jobs and daily lives smoothly and creatively.

There are **many methods/references/activities** for creative problem solving, we are told. But they are often not easy to find/access/understand. Internet keyword searches, for example, give us messy outputs.

For overcoming the difficulty, we organized **a voluntary project WTSP** (World TRIZ-related Sites Project) in Dec. 2017.

It aims at **building Catalogs of good websites** in the world in the fields of TRIZ and Around-TRIZ (i.e., creative problem-solving methodologies in general).

We started this project in the TRIZ community, but we want to learn/use many other methodologies for ourselves and suppose people familiar in other methodologies also want to learn/use TRIZ. Thus, we build our Catalogs having **two pillars, TRIZ and Around-TRIZ**.

[1B] Basic Strategies

Websites are meaningful units of information resources;

better than (smaller) webpages, papers, patents, etc. and (larger) journals, conferences, books, etc.

Contents of Websites are kept updated by a group of people for many years with certain level of unity/quality/scope and include many links to their original/individual references and to various relevant information sources.

Any Catalog must meet 3 Basic Requirements 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.

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

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

We have designed and tried to build our Catalogs to fulfill all these well.

We have chosen to carry out this project on **a voluntary basis**, hoping collaboration by many TRIZ people. Nakagawa is the proposer and Project Leader, and five TRIZ leaders are invited to be Global Co-editors.

[2] Activities for Building WTSP Catalogs

[2A] Activities for Building WTSP Catalogs: TRIZ Sites

WTSP project was supported initially by many TRIZ colleagues; the Project got about 80 Members from 30 countries (Sept. 2018 at ETRIA TFC).

As a pilot project, **Japan WTSP Catalogs** (of 92 websites) were made. (Apr. 2018)

Internet surveys of TRIZ sites In the world and in USA were made by Nakagawa (Mar. 2019)

Catalog manuscripts were contributed by TRIZ leaders in **Malaysia, China, and Russian Language region**. (Jun. 2019).

World WTSP Catalogs of TRIZ Sites were built quickly (**Preliminary Edition**) for visualizing our vision (Jun. 2019), and they were revised into **Beta Edition** (Jun. 2020)

Many (30 to 40) countries have not contributed their lists of TRIZ sites yet.
USA, UK, France, Germany, Italy, Korea, Taiwan,

Recently, Internet surveys of TRIZ sites were made individually in 52 countries (Nakagawa, May - Nov. 2021). -- But not incorporated yet in the World Catalogs.

[2B] Activities for Building WTSP Catalogs: Around-TRIZ Sites

Internet surveys of Around-TRIZ sites In the world were made (Nakagawa, May -Sept. 2019)

Keywords used:

Creative Think Method

(Creative / innovative / Systematic) **Problem Solve** (Method / Process / Technique)

Innovation (Process / Strategy / Method / management / Technology)

(Quality / Value / Cost / Productivity) (Deploy / Engineering / Management / Control / Analysis) (Method / Technique / Theory / Process / "Case Study")

(Patent / IP / "Intellectual Property") (Analysis / Protect / Circumvent / Mapping / Strategy)

About 1000 websites were detected.

Visiting all the sites one by one, he described brief introduction (in 3-15 lines) and evaluated them tentatively.

The results were made into Preliminary Edition (Jun. 2019) and Beta Edition (Jun. 2020) of the World WTSP Catalogs of Around-TRIZ Sites.

[2C] Evaluation of Websites

(Internet surveys output information of hundreds of sites.

-- But messy with noise and difficult to find real good ones.)

We should evaluate every site even tentatively and select good ones for our Catalogs.

Evaluation need to be refined later, probably by public reviews.

Multiple Criteria we use:

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, ...)

Grading into 5 Levels, showing with the following symbol marks.

◎ **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.**

[3] Structure of World WTSP Catalogs (Beta Edition)

[3A] Main Catalogs in the World WTSP Catalogs of TRIZ Sites and Around-TRIZ Sites

Beta Edition, Jun. 30, 2020. Toru Nakagawa

Code	Catalog name	◎ Sites	○ Sites	(□ Sites)	Type of Catalog *
(A1)	World TRIZ Sites Top Catalog (◎)	◎ 23	--	--	Index / Print
(A2)	World TRIZ Sites Basic Catalog (◎○)	◎ 23	○ 39	--	Index / Print
(C1)	World Around-TRIZ Sites Top Catalog (◎)	◎ 33	--	--	Index / Print
(C2)	World Around-TRIZ Sites Basic Catalog (◎○)	◎ 33	○ 127	(□ 19)	Index / Print

(A) TRIZ Sites: Based on data from 4 countries + 2 Internet surveys (World, USA).
Many good sites from 30-40 countries may be missing.

(C) Around-TRIZ Sites: Based on the data of about 1000 sites from 5 Internet surveys

[3B] Structure of a sample WTSP Catalog page

Index Part

Arranged by Roles of site, and Evaluation

Index Table of sites

Code	Eval	Name	URL	Roles	Desc
XX-03	©	HP XX	www.	(a1) Info	(a)(b) (c)

Internet (Global)



Either in a separate file (Index type) or in the same file (Print type)

Site Description Part

Descriptions of individual sites

Standard form (A4 1 page)

(a) XX-03 © HP XX www. (a1) Info
..... Brief introduction (3-15 lines)

XX-03 Introduction in a tabular format
..... www..

(b) Application phase, Fields, Methods,
Description of XX-03
(Optional) Close Description: See (c) --->

Hyperlinks.
(flexible location of the referred item)

Close description

(c) XX-03 www...
Full introduction
Several pages

[3C] 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)

(Index)

(Sites)

(Sites)

Descriptions of sites

Sites-XX

Sites-TN2a

Sites-TN3b

Download in PDF,
Print and Use on your PC

[3D] Example of Brief Site Introduction by a Surveyor

TN3D-08 © Wikipedia <https://en.wikipedia.org/> USA English
Roles: (g3) Knowledge sharing

About (Excerpt): Wikipedia is a multilingual, web-based, free-content encyclopedia project supported by the Wikimedia Foundation and based on a model of openly editable content. ...

Wikipedia is written collaboratively by largely anonymous volunteers who write without pay. Anyone with Internet access can write and make changes to Wikipedia articles.

Since its creation on January 15, 2001, Wikipedia has grown rapidly into one of the largest reference websites, attracting 374 million unique visitors monthly as of September 2015. There are about 72,000 active contributors working on more than 48,000,000 articles in 302 languages. As of today, there are 5,937,320 articles in English.

Note (TN, Sept. 26, 2019): Many keywords/terms of our interest in TRIZ and related methodologies are explained in Wikipedia. **Contents and quality of them seem to vary much depending on the items and on languages.**

Wikipedia is often used as handy and reliable references by many people especially on the topics out of one's specialty. Thus the quality of description of each item should be important for better introduction of the items for common people.

[3E] Example of Site Description in the WTSP Standard Form (1 page in A1)

Ex: Team: JP, Site Code: JP-10, Written by Kazuya Yamaguchi

Site Name **	Ex. MOST LLC (Kazuya Yamaguchi)	
Site domain URL**	Ex. http://www7b.biglobe.ne.jp/~most/ (Japanese)	
Site Location **	Ex. Japan	#
Site Language **	Ex. jp	#
Roles of Site **	Ex. (e4) Consultants, (a1) Dedicated for information sending	#
Evaluation **	Ex. ○ Important (about top 100) in the World Catalogs (5 grades: ◎○□△-)	#
Single-line Description *	Ex. Trace records in consulting in the whole engineering fields, by use of QFD-TRIZ-Taguchi Method.	
Application phase *	Ex. (c) Solution generation phase: (c1) Idea generation, (c2) Solution building, (c3) Solution evaluation and selection	#
Application Fields *	Ex. (c) Engineering: all the subfields of Engineering (c1) through (c9)	#
Methods *	Ex. (b) Needs and problem finding: (b2) Quality Function Deployment (QFD), (g) Idea generation tools: (g1) Use of typical patterns of idea generation, (h) Solution building methods: (h1) Design methods, (j) Solution implementation methods: (j3) Manufacturing, mass production,	#
Description of Introduction *	Ex MOST LLC has obtained from many companies/laboratories, who used to have serious difficulties, the reputations that they were navigated well to wonderful solutions through consulting. .. (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-10-MOST.html (Written by Kazuya Yamaguchi)	
Note of description	Ex. Written by Kazuya Yamaguchi (Site Owner), Aug. 31, 2020	

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

[3F] Example of (Optional) Close Introduction by the Site Owner

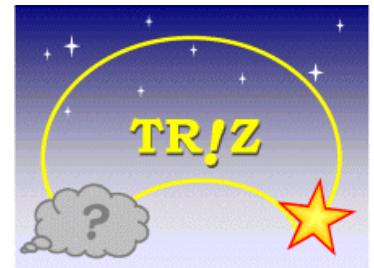
Free format in 2 - 5 pages (or more) in A4, a separate file.

Choose some style suitable for the site depending on the nature of the site.

Ex. "TRIZ Home Page in Japan" (Toru Nakagawa) (16 pages in A4)

(1) Features:

History, Editor, Purpose,
Fields/types/scopes of articles,
Special features (Parallel in Japanese and in English,
Methods for accessing articles)



(2) Selected Articles (Brief explanation of selected 160 articles)

- (a) Introducing TRIZ (1997~2001)
- (b) Introducing USIT (Unified Structured Inventive Thinking) (1998 - 2001)
- (c) Extending USIT (USIT Operator System) (2002 - 2003)
- (d) Absorbing Modernized TRIZ (At International conferences, etc.)(2001 - 2004)
- (e) 'Six-Box Scheme: A new paradigm of creative problem solving' (2003 - 2006)
- (f) Activities of Japan TRIZ Society and Japan TRIZ Symposia (2005 - 2008)
-
- (k) 'Liberty vs Love': the Principal Contradiction of Human Culture (2015 - 2019)
- (l) World Catalogs of TRIZ-related Sites (WTSP Project) (Dec, 2017 - present)

[3G] Various 'Roles of sites'

Websites are arranged with their Main Role while showing their multiple Roles.

Roles of site	typical subcategories	© TRIZ	○ Sites
(a) Information sending sites	(a1) Dedicated for information sending, (a2) Public Web sites,	9,	4
(b) Promotor organizations	(b1) Dedicated associations, (b2) Dedicated (academic) societies, (b3) International conferences,	5,	4
(c) Public organizations	(c1) International organizations, (c2) National organizations	1,	1
(d) Academia,	(d1) Universities, (d4) Academic societies (in general fields),	0,	0
(e) Developer organizations	(e1) Method developers, (e2) Software/tool developers, (e4) Consultants, (e5) Training organizations,	7,	15
(f) Publishing organizations	(f1) Journals, (f2) Publishers, (f3) Repository, (f4) Book sellers,	0,	6
(g) Information sharing,	(g1) Mass media, (g2) Technology news, (g3) Knowledge sharing, (g4) Social networks,	1,	7
(h) User organizations	(h1) Industrial organizations, (h2) Companies, (h3) Educational organizations, (h5) User groups,	0,	2
(i) Personal	(i1) Individual researchers, (i3) Personal Web sites, (i4) Personal Blog sites, ...	0,	0

[4] Most Important Sites in the World WTSP Catalogs

[4A] World TRIZ Sites Catalog © 23 Most Important Sites

(Jun. 2020. Toru Nakagawa)



Based on the manuscripts from only 4 countries (Japan, Malaysia, China, Russian region) and 2 cases of Internet surveys (USA, World).

Important sites from various countries are missing.

[4B] Illustration of WTSP World TRIZ Sites Catalog (©○) Index part (Abbreviated)

(a) Information sending sites

RUL-01	©	Altshuller Foundation	www...	RU	(a1)(e1)..	(a)(b) (c) Closer info.
TN2A-04	©	TRIZ Journal	www...	US	(a2)(a1)	(a)
JP-01	©	TRIZ HP Japan	www...	JP	(a2)(e1)	(a)(b) (c) Closer info.
TN2F-06	©	TRIZ Power Tools	www...	US	(a1)(e1)(g3)	(a)(b) (c) Closer info.

(b) Promotor organizations

RUL-04	©	MATRIZ	www...	RU	(b1)(b3)(e5)	(a)
TN2F-02	©	Altshuller Institute	www...	US	(b1)(b3)	(a)
TN2A-03	©	ETRIA	www...	EU	(b1)(b3)	(a)
My-01	©	MyTRIZ (Malaysia)	www...	MY	(b1)(b4)	(a)(b) (c) Closer info.

(c) Public organizations

CN-01	©	NERC-TIMT (Hebei Univ.)	www...	CN	(c2)(d1)(e1)...	(a) (b) Standard info
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(d) Academia

(e) Developer organizations

TN2A-47	©	Systematic Innovation	www...	UK	(e1)(e4)(a1)...	(a)
TN2A-48	©	AULIVE	www...	AU	(e1)(a1)(g3)...	(a)
TN2F-04	©	Ideation International	www...	US	(e4)(e1)(e2)	(a)
TN2F-07	©	GEN-TRIZ	www...	US	(e1)(e4)(e8)...	(a)(b) (c) Closer info.
TN2A-06	©	ICG T&C	www...	NL	(e4)(a1)(e1)	(a)
TN2A-09	©	Oxford Creativity	www...	UK	(e4)(g3)	(a)
RUL-12	©	Inst. Innovative Design	www...	RU	(e5)(h3)(e1)	(a)
TN2A-11	©	AiMTRIZ	www...	DE	(e5)(e4)	(a)

(f) Publishing organizations

TN2A-19	○	Amazon	www...	US	(f4)	(a)
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(g) Information sharing

TN2A-12	©	Wikipedia	www...	US	(g3)	(a)
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(h) User organization

(i) Personal

[4C] World Around-TRIZ Sites Catalog © 33 Most Important sites

(Beta Edition, Jun. 2020, Toru Nakagawa)

(Specific methodologies around TRIZ)

12Manage

PMI (Project Management Institute)

Project Smart

Value Based Management.net

Free Management Library

CFI (Corporate Finance Institute)

ASQ (American Society of Quality)

iSixSigma

ipHandbook

The official foundation of G.S. Altshuller

Ideation International

ICG Training & Consulting

GEN TRIZ

Stanford d.school

Harvard Business Review

edX

Systematic Innovation Inc

AULIVE

TRIZ Power Tools

(TRIZ sites)

ISO (International Organization for Standardization)

ASME (The American Society of Mechanical Engineers)

TRIZ Journal

TRIZ Home Page in Japan

National Engineering Research Center for Technological Innovation Method and tool (China)

(General sites)

TED (Ideas Worth Spreading)

ASA (American Scientific Affiliation)

Springer

Science Direct

Research Gate

Amazon

Wikipedia

YouTube

Slide Share

LinkedIn

Selected from about 1000 sites (5 cases of intensive Internet surveys)

and Annotated individually in free-format of 5-15 lines.

(Better than World TRIZ Sites Catalogs.)

[4D] Illustration of WTSP World Around-TRIZ Sites Catalog (©○) Index part (Abbreviated)

(a) Information sending sites

TN3B-05	©	TED Ideas Worth Sharing	www...	US	(a1)(a2)(g3)	(a)
TN3D-04	©	Project Smart	www...	UK	(a1)(a2)(g3)	(a)
TN3D-07	©	iSixSigma	www...	US	(a1)(a2)(g3)	(a)
TN2A-38	©	12Manage	www...	NL	(a1)(a2)(g3)...	(a)
TN3D-05	©	Value Based Management	www...	NL	(a1)(g3)	(a)
TN3E-01	©	ipHandbook	www...	US	(a1)(g3)(f3)...	(a)

(b) Promotor organizations

TN3D-01	©	American Soc. Quality	www...	US	(b1)(a1)(b3)...	(a)
TN3D-06	©	Corporate Finance Inst.	www...	US	(b1)(a1)(e1)...	(a)
TN3D-03	©	Project Management Inst.	www...	US	(b1)(e1)(e5)	(a)

(c) Public organizations

TN3D-02	©	ISO	www...	CH	(c1)	(a)
---------	---	-----	--------	----	------	-----

(d) Academia

TN3A2-01	©	Stanford d.school	www...	US	(d1)(e1)	(a)
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(e) Developer organizations

TN3E-23	○	ip.com	www...	US	(e2)(e4)	(a) (b) Standard
X1BZ-01	○	eduCBA	www...	US	(e5)	(a) (b) Standard

(f) Publishing organizations

TN3D-09	©	Springer	www...	DE	(f2)	(a)
TN3C-23	©	Research Gate	www...	DE	(f3)(g4)	(a)
TN3D-11	©	Amazon	www...	US	(f4)	(a)

(g) Information sharing

TN3D-08	©	Wikipedia	www...	US	(g3)	(a)
TN3D-10	©	YouTube	www...	US	(g3)	(a)
TN3B-04	©	Slide Share	www...	US	(g3)	(a)
TN3C-03	©	LinkedIn	www...	US	(g4)	(a)

(h) User organization

(i) Personal

[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] WTSP Project: Aims (Oct. 2018) Revisited

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**

We have come half the way, having built the Beta Edition of World WTSP Catalogs.

[5C] For Further Enhancement of the World WTSP Catalogs:

To Users/experts of TRIZ and relevant fields:

Please use and learn with the WTSP Catalogs:

WTSP Catalogs are rich and handy to access the whole TRIZ information.

WTSP Catalogs may be used freely at our WTSP website.

<http://www.Osaka-gu.ac.jp/php/Nakagawa/TRIZ/eTRIZ/eWTSP/>

You may download the PDF file of WTSP Catalogs for Print, print it, and use it interactively on your PC as if working at the WTSP site.

WTSP Catalogs for Print are accessible at several other websites.

To website owners:

Please write an introduction of your site in our Standard Form (A4 1 page).

Send it to TRIZ leader(s) in your country and to WTSP Project Leader.

Many users/experts will visit your websites.

To TRIZ leaders or voluntary coordinators (in each country/specific field):

Please list up recommendable websites (in your country/specific field).


Please encourage the site owners to write their site introductions.

Please coordinate the people in your country, and send the manuscript of your country's WTSP Catalogs to the WTSP Project Leader.


Let's work Together! Connected!! Make our Catalogs Attractive & Useful!!!

[5D] References on the World WTSP Catalogs



 
buttons have hyperlinks

WTSP project Website: <https://www.osaka-gu.ac.jp/php/nakagawa/TRIZ/eTRIZ/eWTSP/> 

World WTSP Catalogs Top page (with introductions) 

World WTSP Catalogs of TRIZ Sites: (A) Top page (with instructions) 


(A1P) Top Catalog (©) for Print  

(A2P) Basic Catalog (©○) for Print  

World WTSP Catalogs of Around-TRIZ Sites: (C) Top page (with instructions) 


(C1P) Top Catalog (©) for Print  

(C2P) Basic Catalog (©○) for Print  


Guidelines for building WTSP Catalogs 

WTSP Standard Form for describing a website (.docx) 

Multiple sets of indexing schemes for the WTSP Catalogs 

WTSP Appeal 2021 (Sept. 2021) 

Paper: WTSP (4) World WTSP Catalogs ETRIA TFC2021 (Sept. 2021) 

Mission and Philosophy of WTSP (Aug. 2021) 

Introduction to World WTSP Catalogs (this article) (Jan. 2022) 

Index page of the WTSP Project 

**Let's work
Together ! Connected !!**



Thank you for your attention.

WTSP Global Co-editors: Please communicate with us.



**Toru
NAKAGAWA
(Japan)**



**Darrell
MANN
(UK)**



**Michael
ORLOFF
(Germany)**



**Simon
DEWULF
(Australia)**



**Simon
LITVIN
(USA)**



**Valeri
SOUCHKOV
(Netherlands)**