

The TSP Initiative in Colombia

Strategies for Adoption and Plans for the Future

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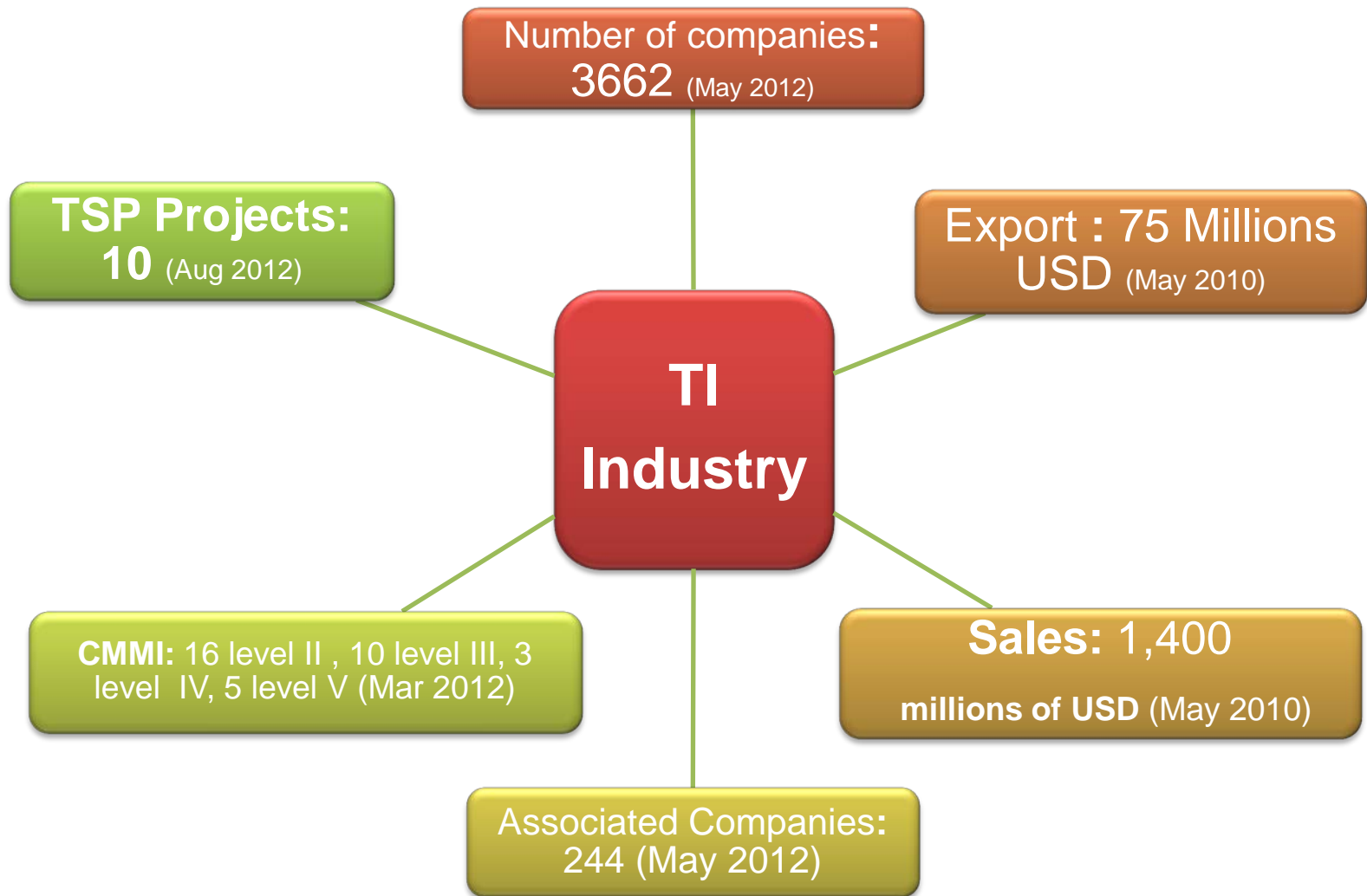


About the Presenter



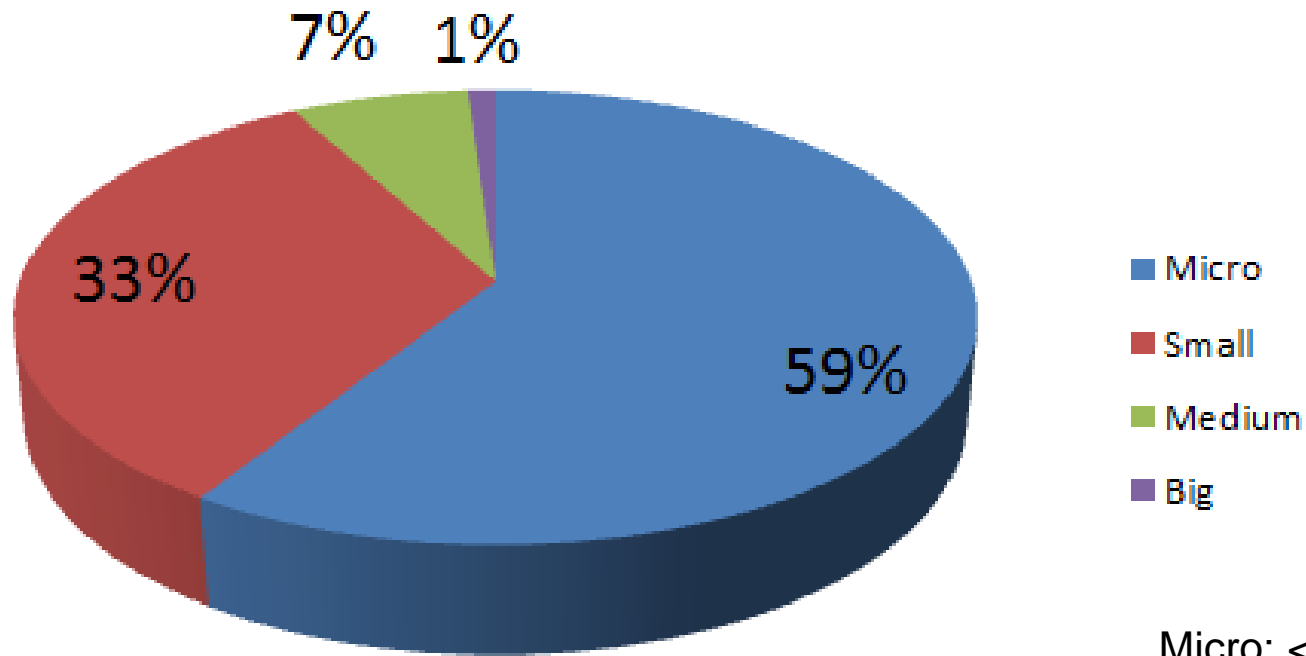
- Yuri Ontibon
- 23 years of experience
- Computer Engineering and Graduate Degree in Business
- SEONTI's Co-founder and Director for Latin America
- Certifications:
 - PSP Developer
 - PSP Instructor
 - TSP Coach
 - TSP Mentor Coach
 - PMP
 - ITIL
 - Scrum Master
- 13 years of experience in TSP and CMMI
- CEO, COO, IT Director and Consultant in several companies in Latin American

IT Industry in Colombia



IT Industry in Colombia

Size of Companies



Micro: ≤ 10

Small: > 10 and ≤ 50

Medium: > 50 and ≤ 200

Big: > 200

The Initiative



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Federación Colombiana de la Industria del Software
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Colombian Federation of Software and Related Industries



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- Non for profit organization founded in 1987
- Works to foster Software and IT Colombian industry
- Promote the relation between entrepreneurs, academy, government and other related industries and actors, to position the country as a world class Software and IT producer
- Communication channel between the Software and IT industry and governmental institutions to develop public policies

- Promoting the adequate standards of the industry in terms of quality, human resources and infrastructure
- Promoting Colombia as a Software and IT producer in the international arena
- Promoting the use of Software and IT in other industries
- Representatives of the Software and IT industry in international forums and international organizations



- SENA: National Service of Learning
- Public institution
- Founded in 1957
- Invest in the Social and Technical Development of Colombian Workers
- Providing free training for the incorporation and development of people in productive activities



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**Ministry of Information Technologies and
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Strengthening of IT Industry

2012



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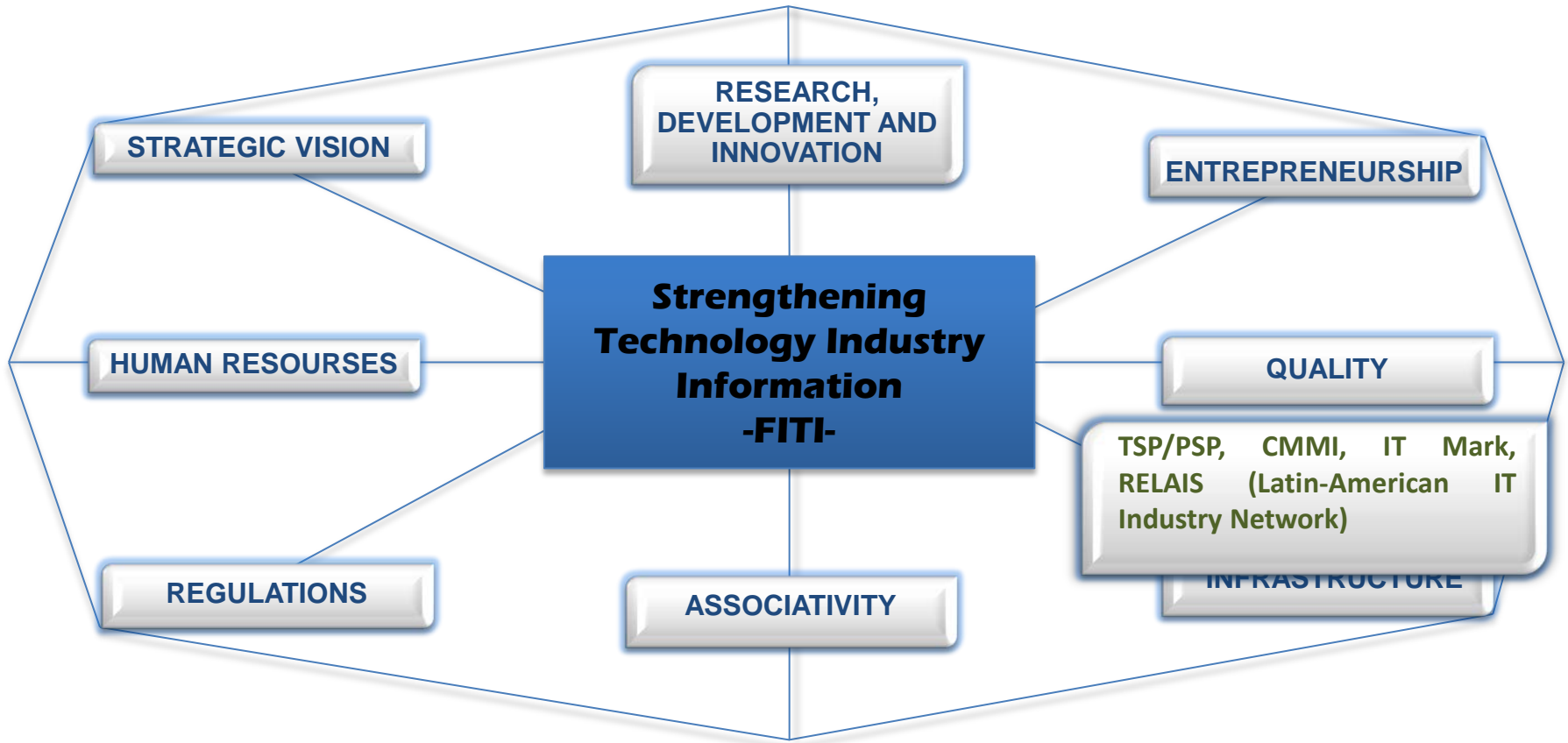
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FITI GOAL

Duplicate the value of sales in IT Industry.
From 2010 to 2014

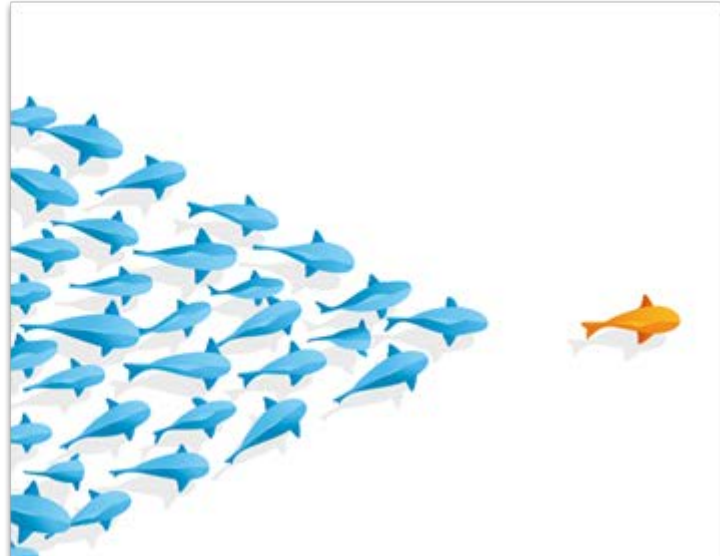




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**FOR ACHIEVING.....
«Intelligence Technique of the
Shoal»**



***A Shoal, directed to National
Development***



- Program for Certification of PSP Developers
- Funding (100%) implementation of CMMI 3 for 60 companies during 2012, 2013, and 2014
- Pre-requisites (any of):
 - CMMI Level 2
 - TSP/PSP
 - IT Mark

Intersoftware is a nonprofit corporation, created in 2004 by a group of software entrepreneurs and related services from this sector, in order to improve competitiveness of enterprises and the wider industry in a partnership model

Currently brings together **23 companies**, representing **85%** of income and employment generation sector in Antioquia Province/State, Colombia





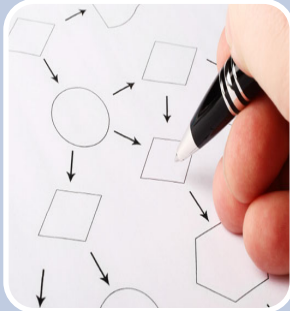
SEIPartner

CMMI • TSP

 TSP/PSP, CMMI-DEV, CMMI-SVC, HM

 PSM, PMI, ITIL, Scrum

TSP Initiative Strategy



Initial
Training



Advanced
Training and
Certification



Pilot
Projects



Deployment
and Local
Capacities



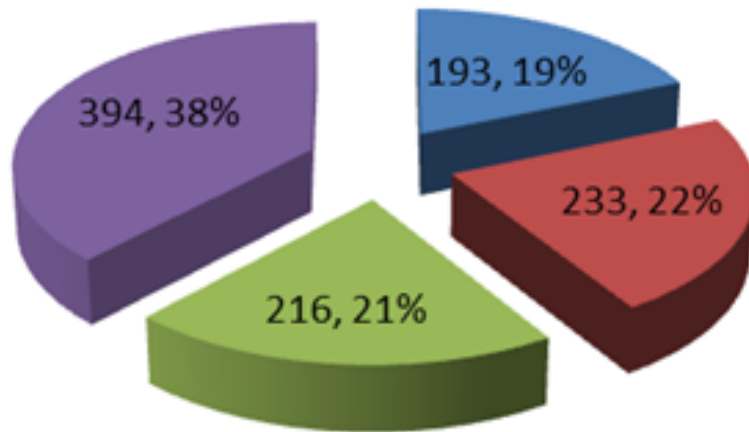
PSP/TSP in
Academia

Initial Training - 2011



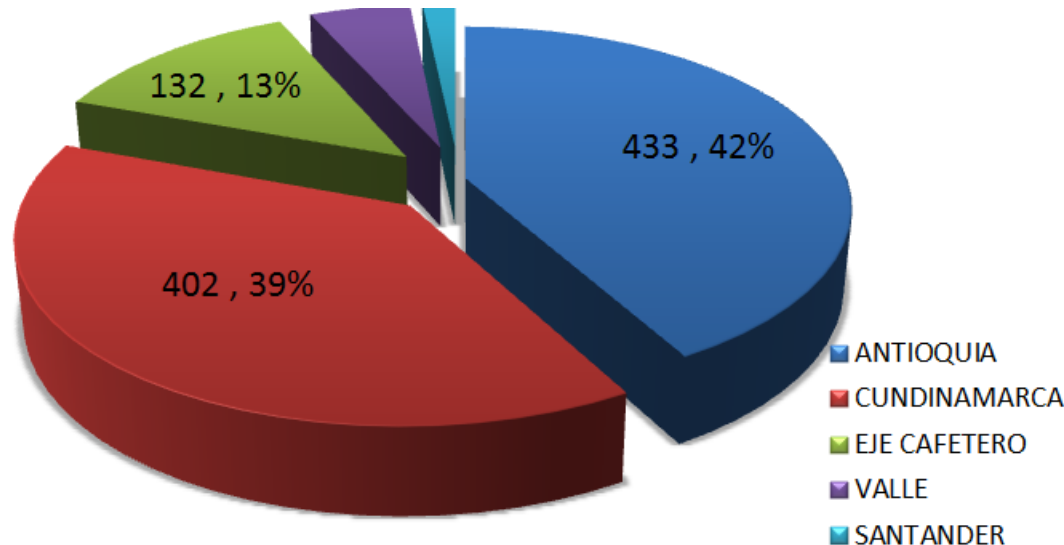
Managers	<ul style="list-style-type: none">• TSP Executive Strategy Seminar
Project Leaders	<ul style="list-style-type: none">• Leading a Development Team
Developers	<ul style="list-style-type: none">• PSP Fundamentals
Others	<ul style="list-style-type: none">• Team Member Training

Initial Training - 2011



- TSP Executive Strategy Seminar
- Leading a Development Team
- TSP Team Member Training
- Personal Software Process (PSP) Fundamentals

1036 People
62 Companies



- ANTIOQUIA
- CUNDINAMARCA
- EJE CAFETERO
- VALLE
- SANTANDER

Cost:

- 80% SENA
- 20% Companies

TSP Pilot Projects -2012

- Budget for 16 projects
- Current Status (Aug-2012): 8 projects
- Costs:
 - SENA: 50%
 - Companies: 50%



PSP Developer Certification

- PSP Fundamentals
- PSP Advanced
- Exam (SEI recently released Spanish version)
- Costs:
 - MinTic: 100%
 - Persons: 0%



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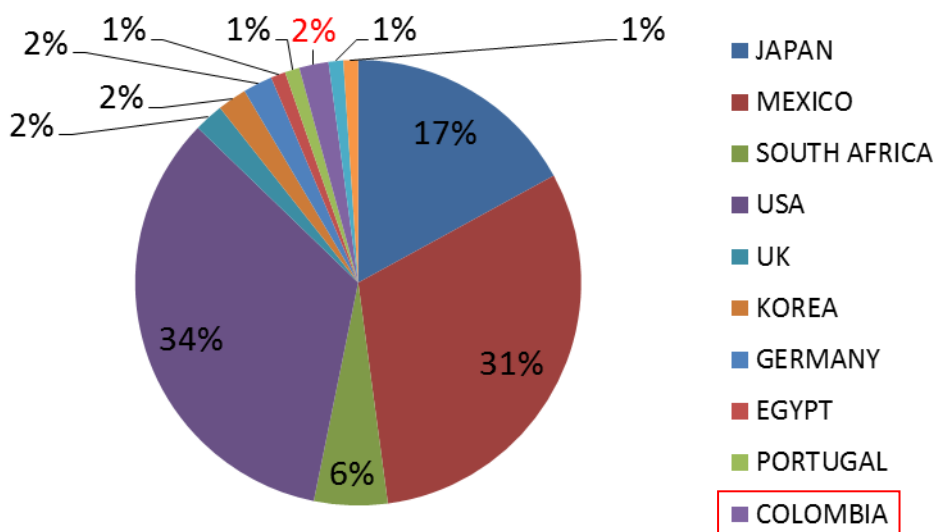
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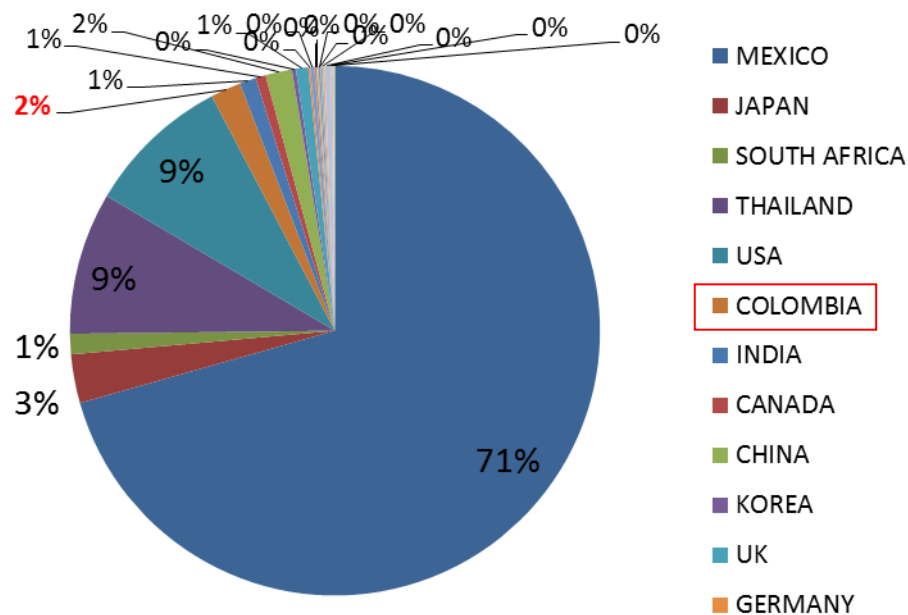


Colombia is in the Map

PSP Instructors

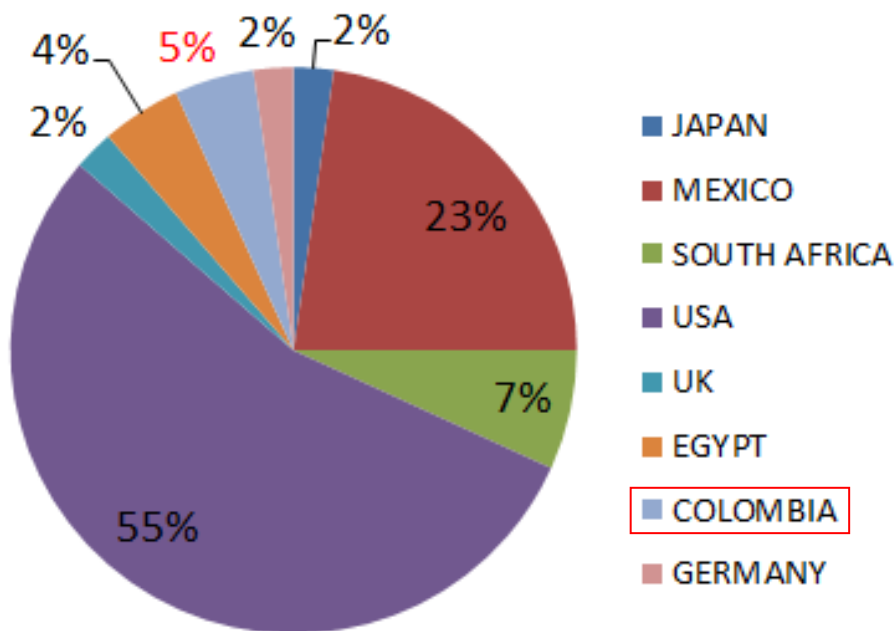


Certified PSP Developers

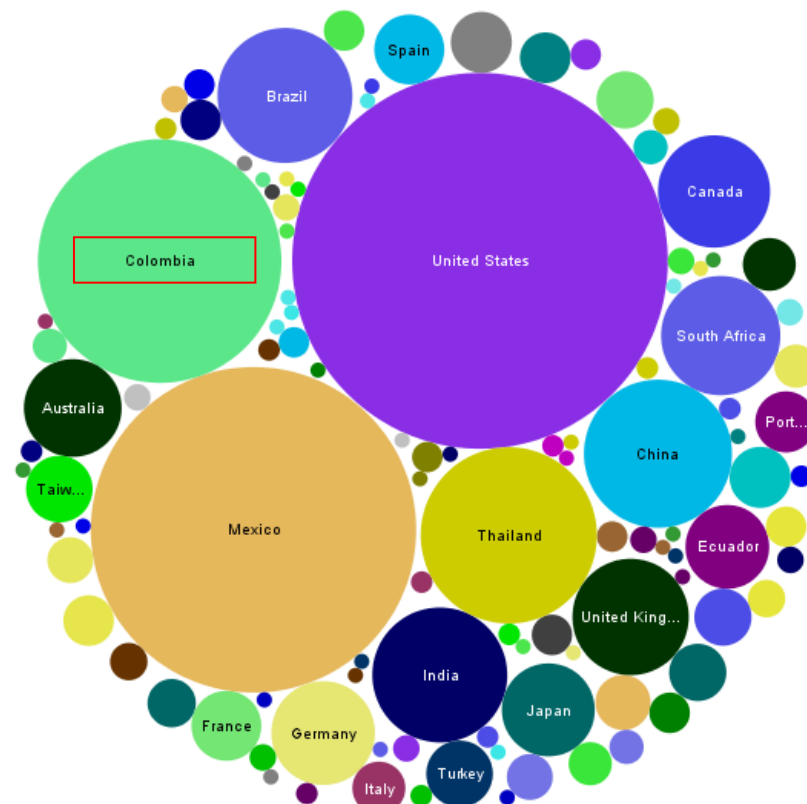


Colombia is in the Map

Certified TSP Coaches



Process Dashboard downloads



Companies Using TSP



PersonalSoft Case

- Software Development Company Founded in 1998
- Specialist in Software Engineering and Process Engineering.
- Offices in Medellin and Bogota
- About 300 employees
- Pioneers in the implementation of PSP/TSP in Colombia



PersonalSoft Case

Evolution



1998
Procesos

2003
ISO 9K

2009
CMMI
Nivel 3

2010-2011
PSP/TSP



2011-2012
High Maturity



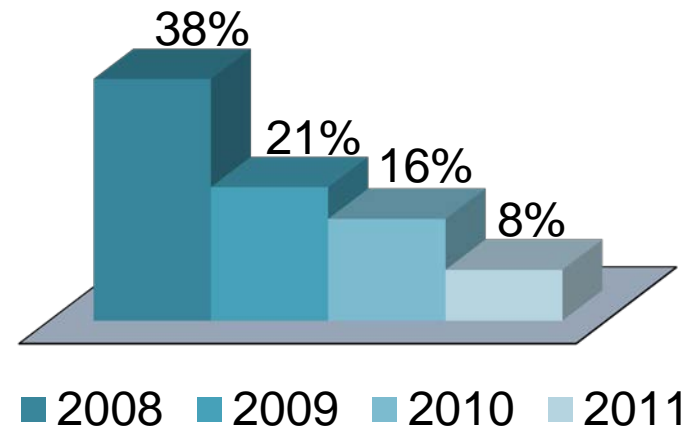


PersonalSoft Case

Results

Effort Estimation Error

Year	2008	2009	2010	2011
Effort Estimation Error	38%	21%	16%	8%



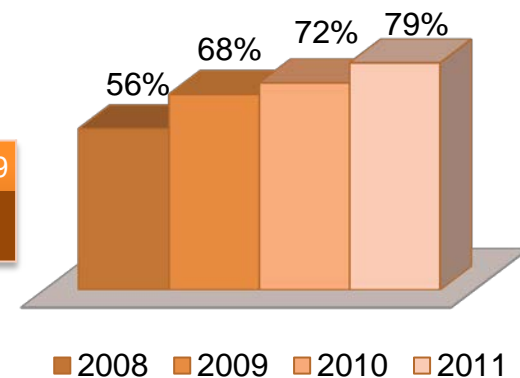


PersonalSoft Case

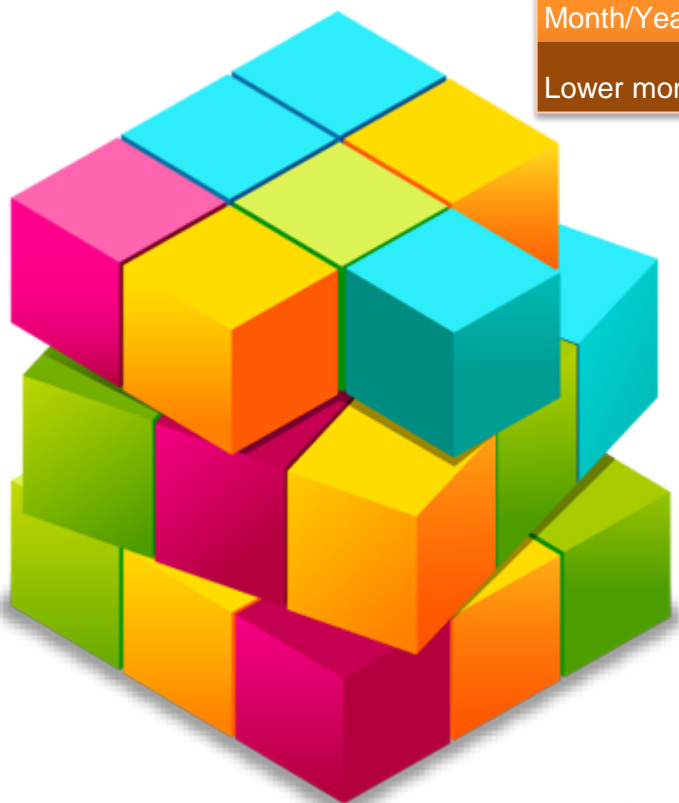
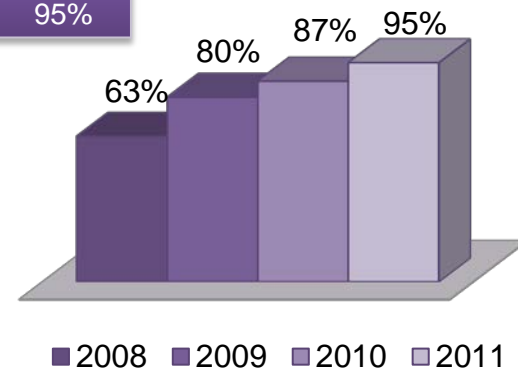
Results

Effective Time in Projects

Month/Year	2008-04	2009-02	2010-03	2011-09
Lower month	56%	68%	72%	79%



Month/Year	2008-11	2009-10	2010-10	2011-10
Higher month	63%	80%	87%	95%



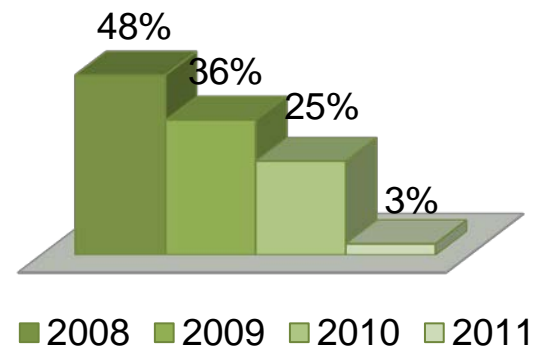


PersonalSoft Case

Results

Quality: Effort in second round of testing

Year	2008	2009	2010	2011
% Effort	48%	36%	25%	3%



Challenges for the TSP Initiative

- Coordinate different institutions and funds
- For small companies, cost is an important factor
- Grant funds for next phases

Next Steps



Initial
Training



Advanced
Training and
Certification



Pilot
Projects



Deployment
and Local
Capacities

PSP/TSP in
Academy

Thank you !

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