

Process Maturity Profile

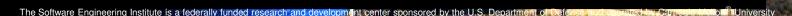
CMMI® For Development SCAMPISM Class A Appraisal Results 2008 End-Year Update

March 2009

We could not produce this report without the support of the organizations and lead appraisers who reported their appraisal results to the SEISM.

Our many thanks for their continuing cooperation with our data collection and analysis efforts.

CMMI Appraisal Program



® CMMI, Capability Maturity Model and Carnegie Mellon are registered in the U.S. Patent and Trademark Office by Carnegie Mellon University SM SCAMPI and SEI are service marks of Carnegie Mellon University



Outline

Introduction

Current Status

Community Trends

Organizational Trends

Summary And Terms used in this Briefing

How to Report your Appraisal Results to the SEI

This briefing is based solely on the appraisals reported to the SEI. It cannot be used as a source for an exact indicator of all organizations in the world using CMMI models or appraisal methods nor can it be used for certification or verification purposes.

The SEI does not certify appraisal results or organizations. The SEI licenses SEI Partners, authorizes/certifies lead appraisers, team leaders and high maturity lead appraisers to conduct appraisals. Neither the SEI nor any other organization is a "certifying authority" of the results from a SCAMPI appraisal. Therefore requests to the SEI to provide information to be used for this purpose can not be fulfilled. Information provided by the SEI, such as this briefing, is to demonstrate reported results of the use of CMMI products and services only.

Organizations performing source selection or verification should consider performing an evaluation appraisal. For more information on appraisal methods and for a directory of authorized lead appraisers who can perform them, visit: http://www.sei.cmu.edu/appraisal-program/



Introduction: Purpose

Characterize the adoption of CMMI® - DEV

Describe results from Standard CMMI Appraisal Method for Process Improvement (SCAMPISM) v1.1/v1.2 Class A appraisals using Capability Maturity Model® Integration (CMMI-SE/SW/IPPD/SS v1.1 or CMMI - DEV v1.2) *

Encourage continued reporting of results

Please visit: http://www.sei.cmu.edu/appraisal-program/profile/index.html for additional information or questions you may have about this briefing before contacting the SEI directly

^{*} Organizations previously appraised against CMMI v1.0 and which have not reappraised against v1.1 or v1.2 are not included in this report





Introduction - 2: Briefing Contents

This briefing includes three primary sections:

1. Current Status

- Snapshot of the software community based on the most recent appraisal, since 2002, of reporting organizations

2. Community Trends

- Global distribution of appraisals
- Growth in the number of appraisals performed
 Shifts in the maturity profile over time

3. Organizational Trends

- Analysis of Process Area (PA) satisfaction
- Time to move up in maturity based on change in maturity level and time between appraisals



Current Status

SCAMPI v1.1/v1.2 Class A appraisals conducted from the SCAMPI V1.1 April 2002 release through December 2008 and reported to the SEI by January 2009

- 4,134 appraisals
- 3,446 organizations
- 2,544 participating companies
- 564 reappraised organizations
- 21,141 projects
- 71.4% Non-USA organizations

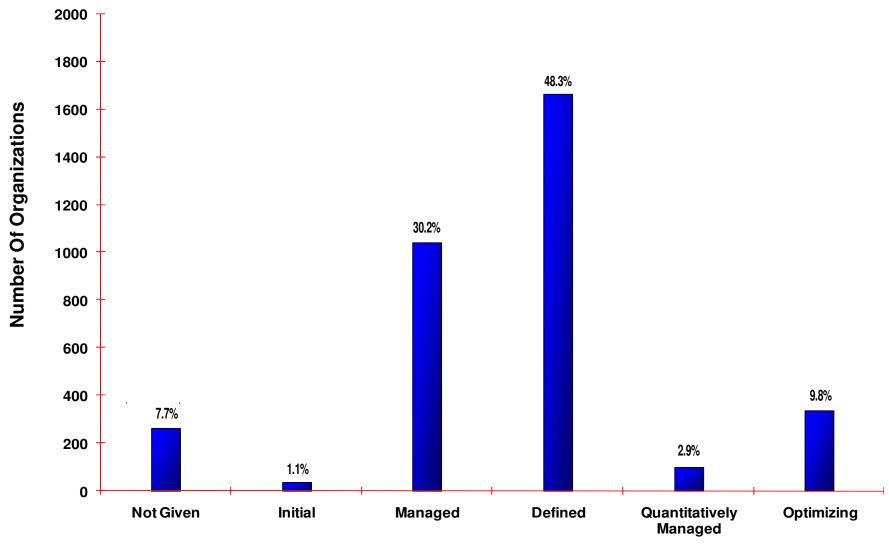
Please refer to: Terms Used in this Report on page 29

Additional charts providing different views and break down of this information will be added to this briefing as more appraisal data is reported to the SEI over time.





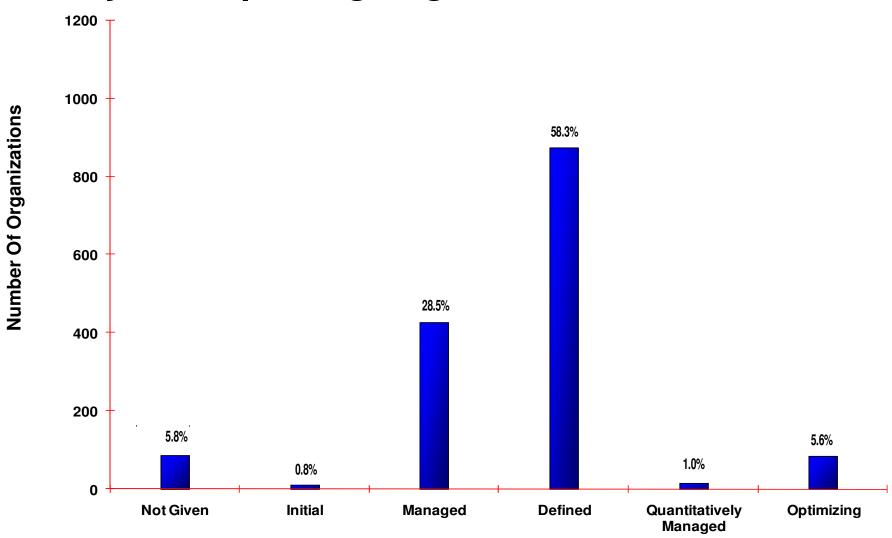
Process Maturity Profile by All Reporting Organizations



Based on most recent appraisal of 3446 organizations



Process Maturity Profile (V1.2 Only) by All Reporting Organizations

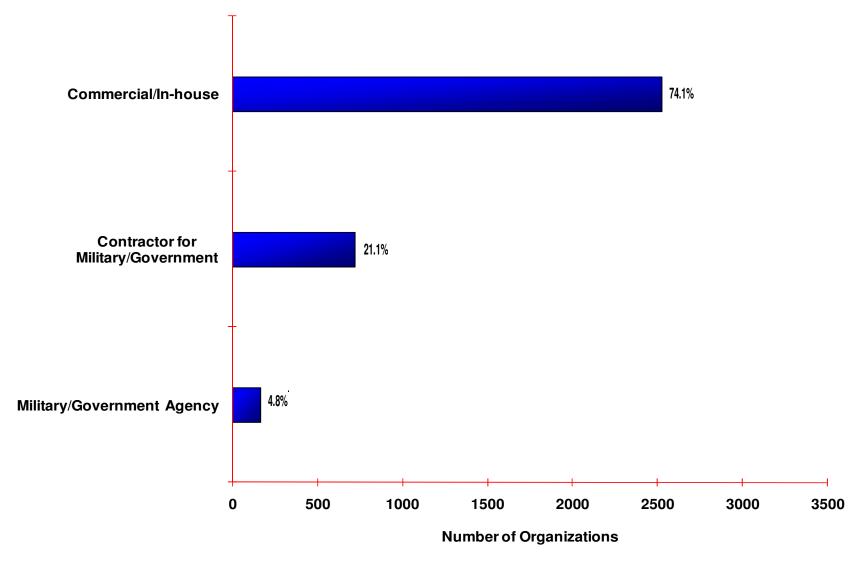


Based on most recent appraisal of 1500 organizations





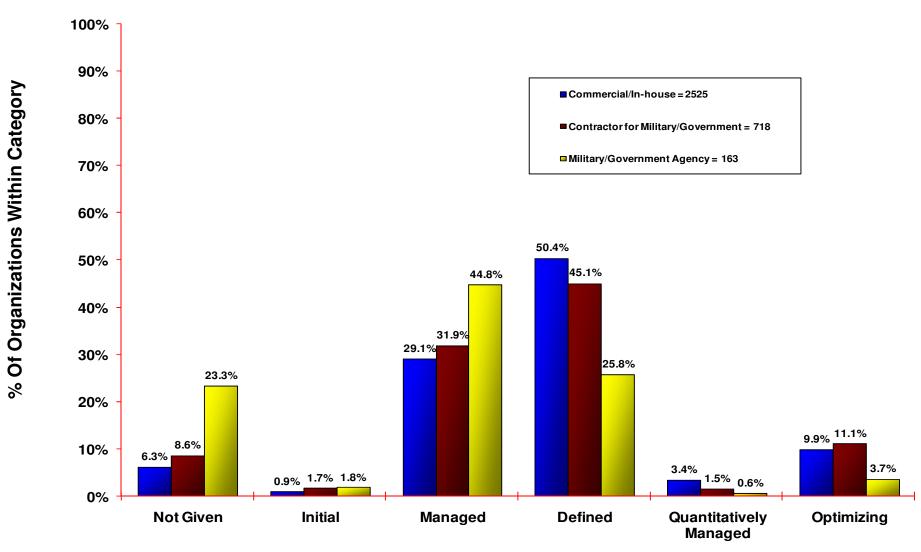
Reporting Organization Categories



Based on 3446 organizations reporting an organization category



Process Maturity Profile by Reporting Organization Categories



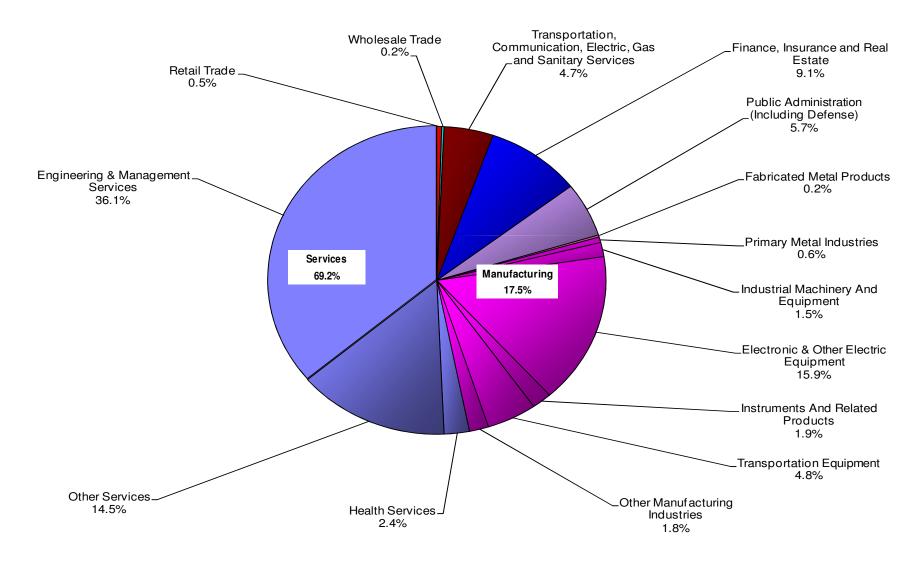
Based on most recent appraisal of 3406 organizations reporting an organization category





Organization Type

Based on Primary Standard Industrial Classification (SIC) Code



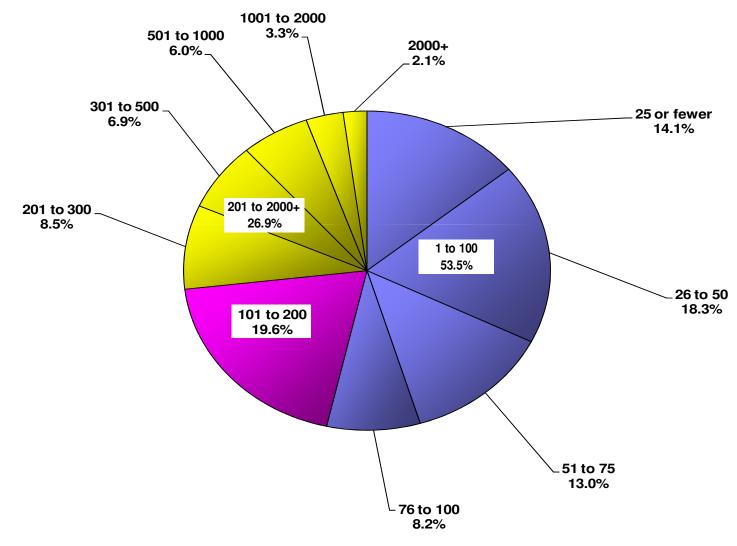
Based on 2652 organizations reporting SIC code. For more information visit: http://www.osha.gov/oshstats/sicser.html

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Organization Size

Based on the total number of employees within the area of the organization that was appraised



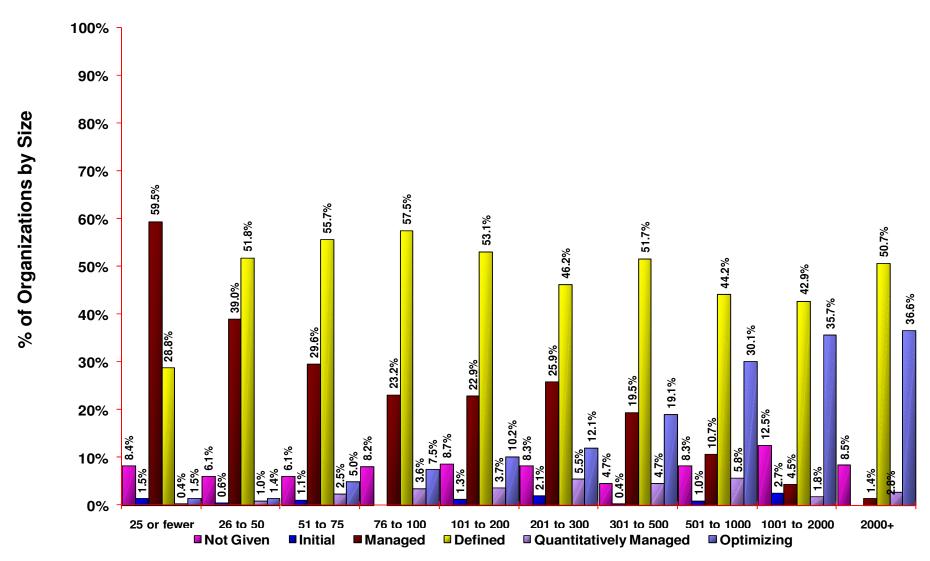
Based on 3407 organizations reporting size data

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Maturity Profile by Organization Size

Based on the total number of employees within the area of the organization that was appraised

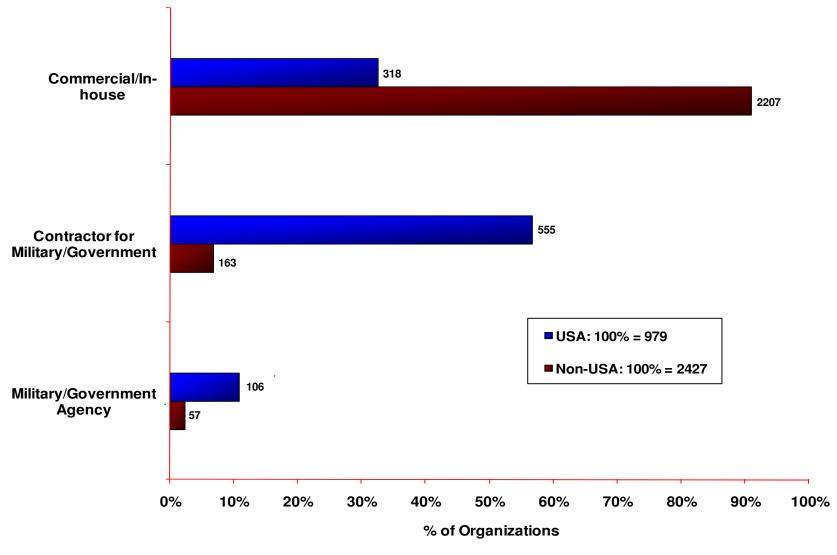


Based on 3407 organizations reporting size data





USA and Non-USA Reporting Organization Categories

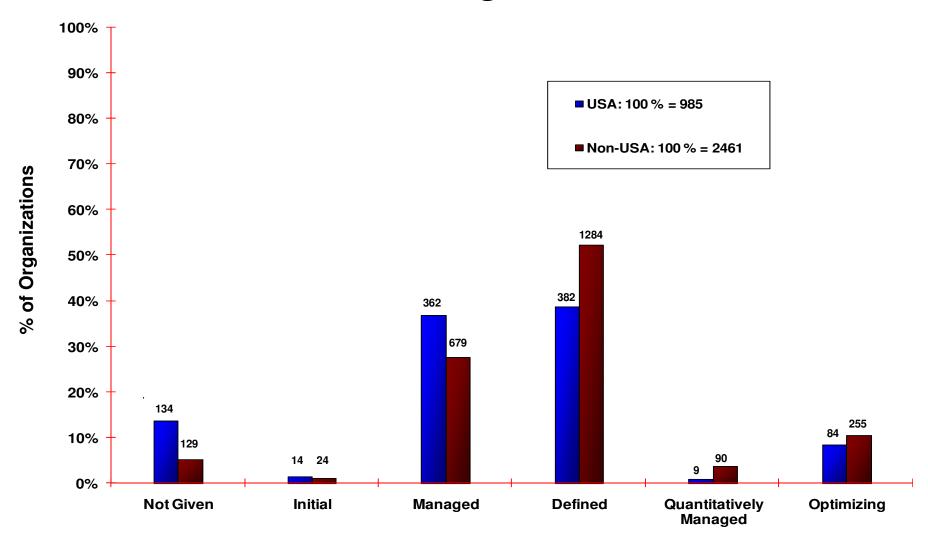


Based on 985 USA organizations and 2427 Non-USA organizations reporting an organization category





Maturity Profile by All Reporting USA and Non-USA Organizations



Based on 985 USA organizations and 2461 Non-USA organizations



Section 2: Community Trends

Appraisals conducted through December 2008 and reported to the SEI

- 67 Countries reported appraisals
 - most of the appraisals are from Asia and North America
- 3081 Appraisals were available on PARS
 - the expired ones were removed and the reappraised were replaced by the newest appraisals

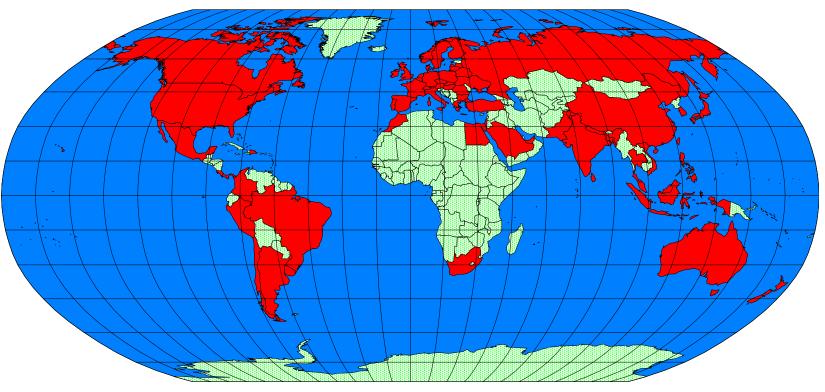
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Countries where Appraisals have been Performed <u>and</u> Reported to the SEI



Argentina
Bulgaria
Dominican Republic
India
Lithuania
New Zealand
Romania
Sweden
United States

Australia
Canada
Egypt
Indonesia
Luxembourg
Norway
Russia
Switzerland
Uruquay

Austria Chile Finland Ireland Malaysia Pakistan Saudi Arabia Taiwan Viet Nam Bahrain China France Israel Mauritius Panama Singapore Thailand

Bangladesh Colombia Germany Italy Mexico Peru Slovakia Turkey Belarus
Costa Rica
Greece
Japan
Morocco
Philippines
South Africa
Ukraine

Belgium Czech Republic Hong Kong Korea, Republic Of Nepal Poland Spain

Brazil
Denmark
Hungary
Latvia
Netherlands
Portugal
Sri Lanka

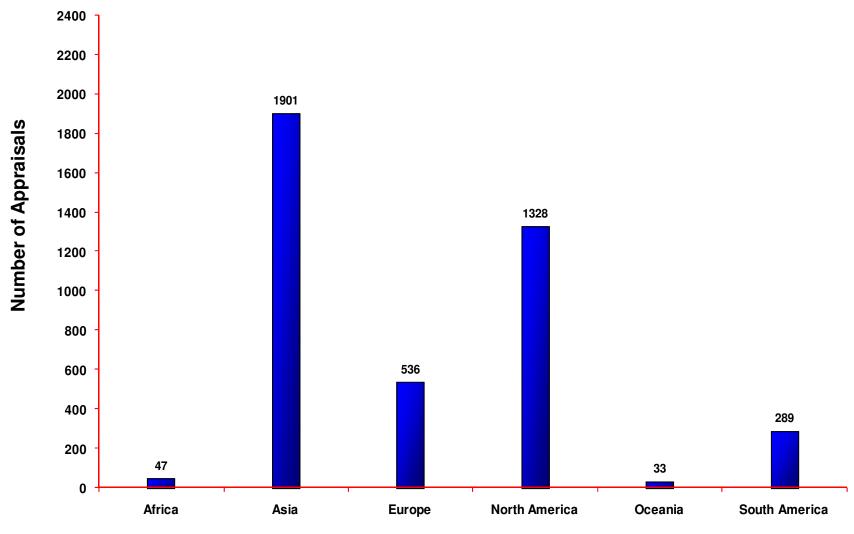
Red country name: New additions with this reporting

United Arab Emirates United Kingdom





Number of Appraisals Reported to the SEI by Continent



Based on 4134 appraisals





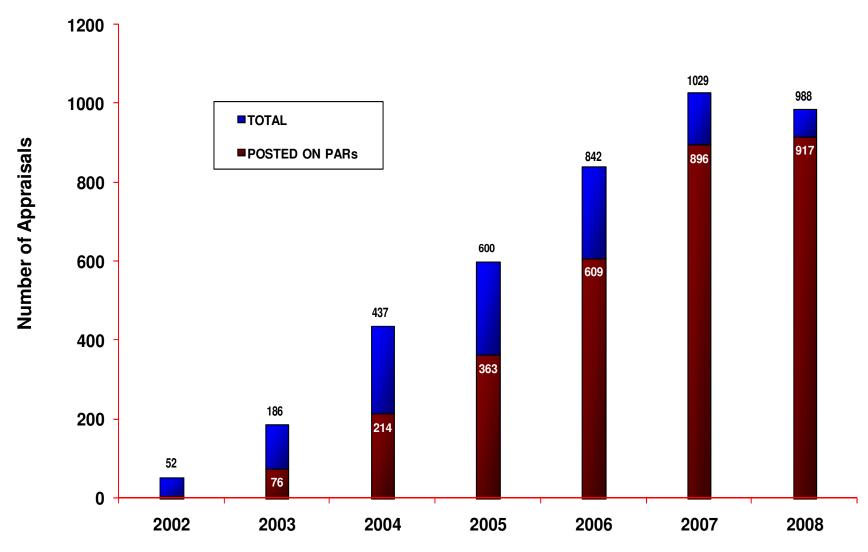
Number of Appraisals and Maturity Levels Reported to the SEI by Country

	Number of	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4	Maturity Level 5		Number of	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4	Maturity Level 5
Country	Appraisals	Reported	Reported	Reported	Reported	Reported		Appraisals	Reported	Reported	Reported	Reported	Reported
Argentina	64		45	12	2	3	Malaysia	56		20	31		5
Australia	32	1	7	5	2	4	Mauritius	10 or fewer					
Austria	10 or fewer						Mexico	57		24	25	3	4
Bahrain	10 or fewer						Morocco	10 or fewer					
Bangladesh	10 or fewer						Nepal	10 or fewer					
Belarus	10 or fewer						Netherlands	10 or fewer					
Belgium	10 or fewer						New Zealand	10 or fewer					
Brazil	106	1	50	42	1	9	Norway	10 or fewer					
Bulgaria	10 or fewer						Pakistan	25	1	18	4		1
Canada	51	1	12	22	5	3	Panama	10 or fewer					
Chile	30		17	10		2	Peru	10 or fewer					
China	745	1	117	540	27	41	Philippines	21		2	11		7
Colombia	22		7	11	1	2	Poland	10 or fewer					
Costa Rica	10 or fewer						Portugal	10 or fewer					
Czech Republic	10 or fewer						Romania	10 or fewer					
Denmark	10 or fewer						Russia	10 or fewer					
Dominican Republic	10 or fewer						Saudi Arabia	10 or fewer					
Egypt	34	1	17	11	2	2	Singapore	19		3	10	1	4
Finland	10 or fewer						Slovakia	10 or fewer					
France	141	4	81	45	1	2	South Africa	10 or fewer					
Germany	64	9	32	11	1	1	Spain	105	1	60	35	2	4
Greece	10 or fewer						Sri Lanka	10 or fewer					
Hong Kong	18		2	11		5	Sweden	10 or fewer					
Hungary	10 or fewer						Switzerland	10 or fewer					
India	409		14	191	24	166	Taiwan	117	1	74	38		2
Indonesia	10 or fewer						Thailand	27		12	13		1
Ireland	10 or fewer						Turkey	14			12		2
Israel	17		3	10		2	,	10 or fewer					_
Italy	31		14	14		_	United Arab Emirates						
Japan	267	17	75	121	13	16		93	3	42	30	1	3
Korea, Republic Of	138	1	47	61	13	7		1272	27	448	462	21	124
Latvia	10 or fewer							10 or fewer					
Lithuania	10 or fewer							12			9	1	2
Luxembourg	10 or fewer							_			-		





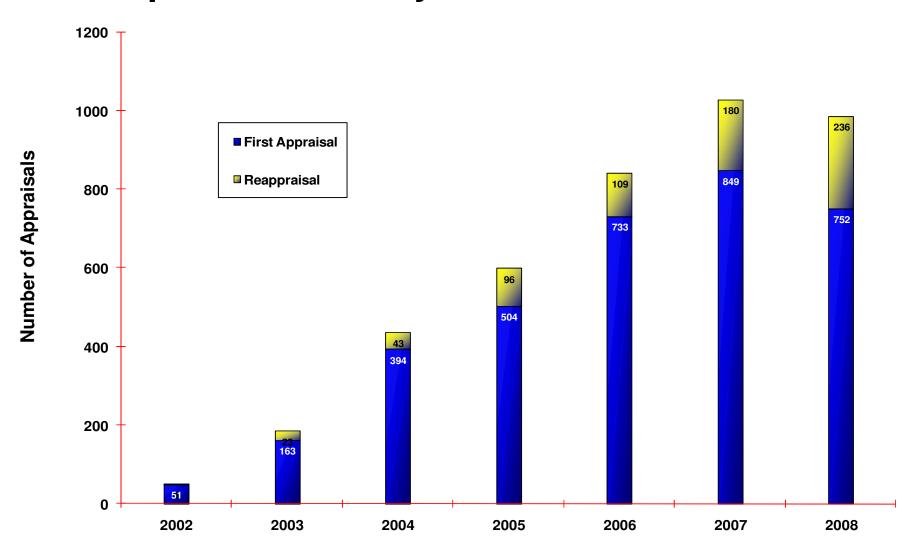
Number of SCAMPI A Appraisals Reported to SEI by Year







Number of SCAMPI A Appraisals Reported to SEI by Year

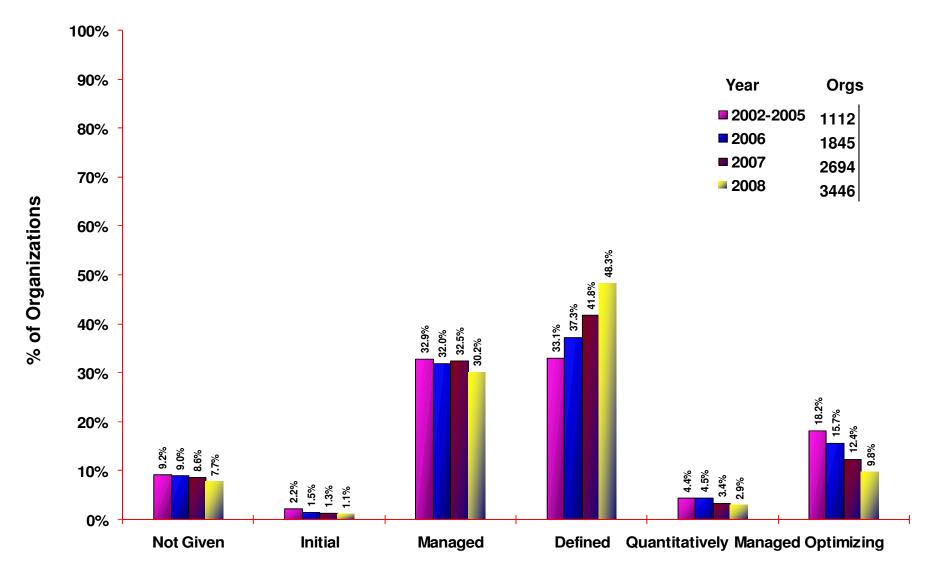


Based on 4134 appraisals





Trends in the Community Maturity Profile



Based on a cumulative view of the most recent appraisals of organizations up through the year indicated





Section 3: Organizational Trends

Appraisals conducted through December 2008 and reported to the SEI

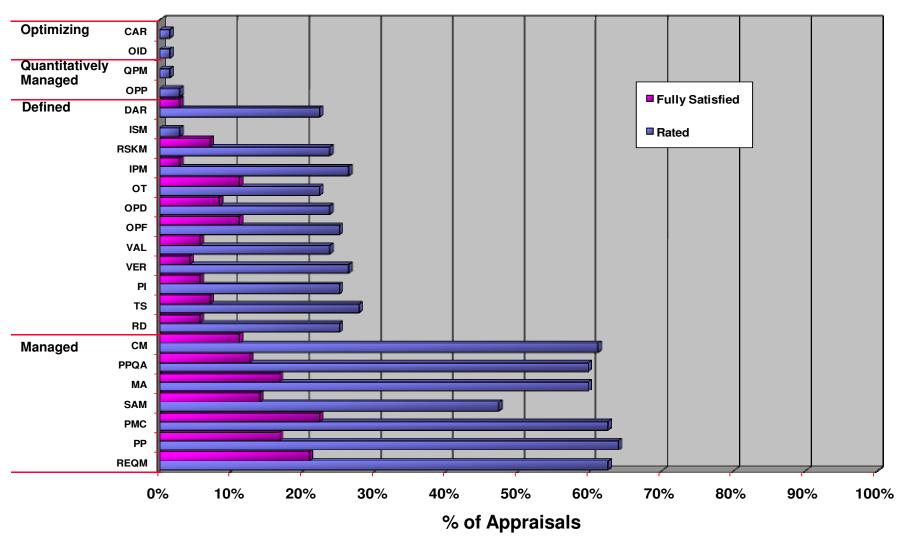
- 1289 Process Area (PA) profiles
 - satisfaction of PAs by maturity level for organizations appraised at levels 1 and 2
- 564 reappraised organizations
 - accounting for 1,252 appraisals
 - although some organizations conducted multiple reappraisals, only the first and latest appraisals were used in creating the charts on pages 25

Please refer to: Terms Used in this Report on page 29





Process Area Profiles - 1 Organizations Appraised at Maturity Level 1

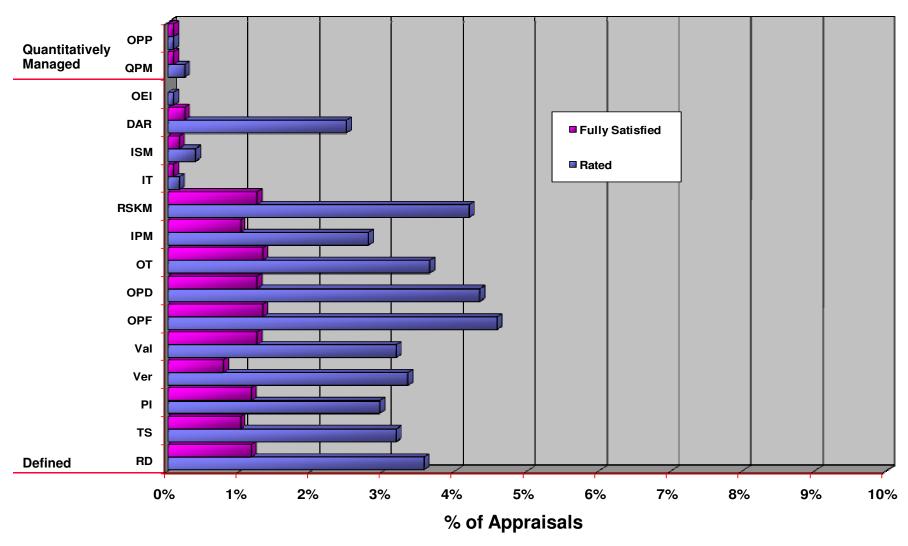


Based on 72 appraisals reporting a maturity level 1 rating





Process Area Profiles - 2 Organizations Appraised at Maturity Level 2



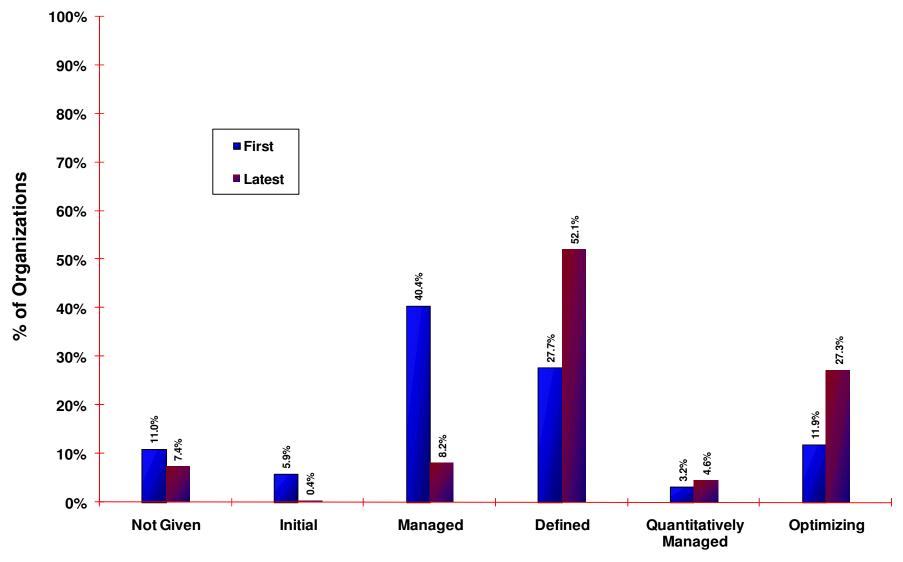
Based on 1289 appraisals reporting a maturity level 2 rating



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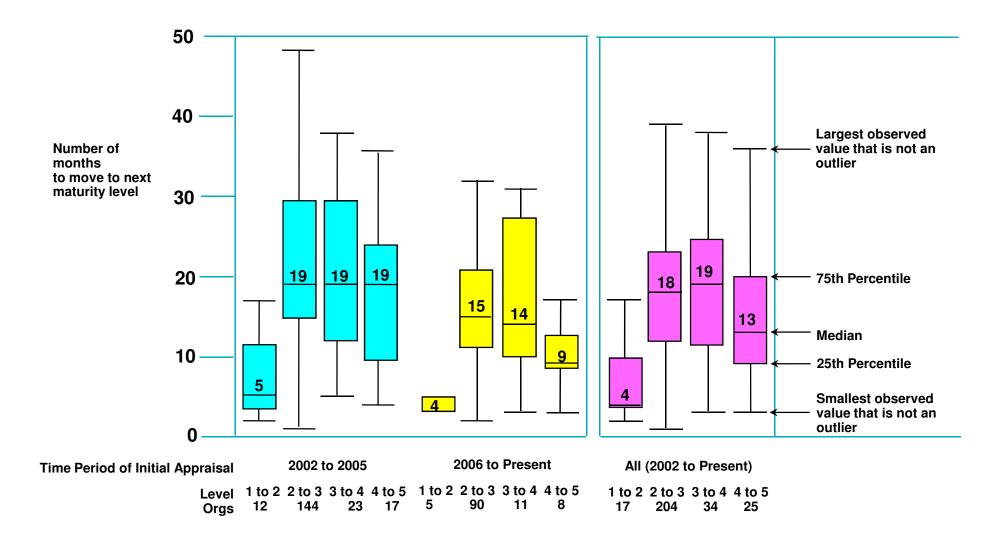
Maturity Level of First and Latest Appraisal



Based on 564 reappraised organizations using their first and latest appraisal



Time to Move Up





Summary - 1

4134 appraisals have been reported to the SEI in 82 months

The Organization Category of "Commercial/In-house" reports most of the appraisals

The highest percentage of "Commercial/In-house" reporting appraisals is from outside the USA

The highest percentage of "Military/Government Agency" reporting appraisals is from the USA

Outside the USA: China, India, Spain, Brazil, Thailand and France reported appraisals are increasing at a rapid rate



Summary - 2

For organizations that began their CMMI-based SCAMPI effort in 2002 or later, the median time to move from:

- maturity level 1 to 2 is 4 months
- maturity level 2 to 3 is 18 months
- maturity level 3 to 4 is 19 months
- maturity level 4 to 5 is 13 months

Note:

Since the September 2008 report, the median time to move from maturity level 2 to 3 increased from 17 months to 18 months, the median time to move from maturity level 3 to 4 increased from 15.5 months to 19 months, and the median time to move from maturity level 4 to 5 increased from 12.5 months to 13 months



Terms Used in this Report

Company

- Parent of the appraised entity

A company can be a commercial or non-commercial firm, for-profit or not for-profit business, a research and development unit, a higher education unit, a government agency, or branch of service, etc.

Organization - a.k.a. Appraised entity

The organization unit to which the appraisal results apply. appraised entity can be the entire company, a selected business unit, units supporting a particular product line or service, etc.

Non-USA

- Appraised entity whose geographic location is not within the United States. The parent of the appraised entity may or may not be based within the United States.

PARS

- Published Appraisal Results webpage contains CMMI® appraisals published at the request of the appraisal sponsor.

The link is: http://sas.sei.cmu.edu/pars/



Report your Appraisal Results to the SEI

The briefing is only possible due to the cooperation of organizations and individuals sending in their appraisal results to the SEI

In order to provide this information and service in the future, it will depend on this continued cooperation

Please visit:

http://www.sei.cmu.edu/appraisal-program/profile/index.html

for forms, information, and instructions on how to report appraisals to the SEI





Contact Information

Please visit:

http://www.sei.cmu.edu/appraisal-program/profile/index.html

and review the information provided before contacting:

SEI Customer Relations (412) 268-5800

SEI FAX number (412) 268-5758

Internet Address customer-relations@sei.cmu.edu

Mailing Address
Customer Relations
Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213-3890