



وزارة الاتصالات والتقانة  
MINISTRY OF COMMUNICATION & TECHNOLOGY

# CMMI-DEV 2.1

شباط ٢٠٢١





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# محتويات العرض

- مقدمة
- النموذج CMMI
- CMMI & Agile
- دليل الاستحواد Adoption guidance
- الاختبار Appraisal





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# مقدمة



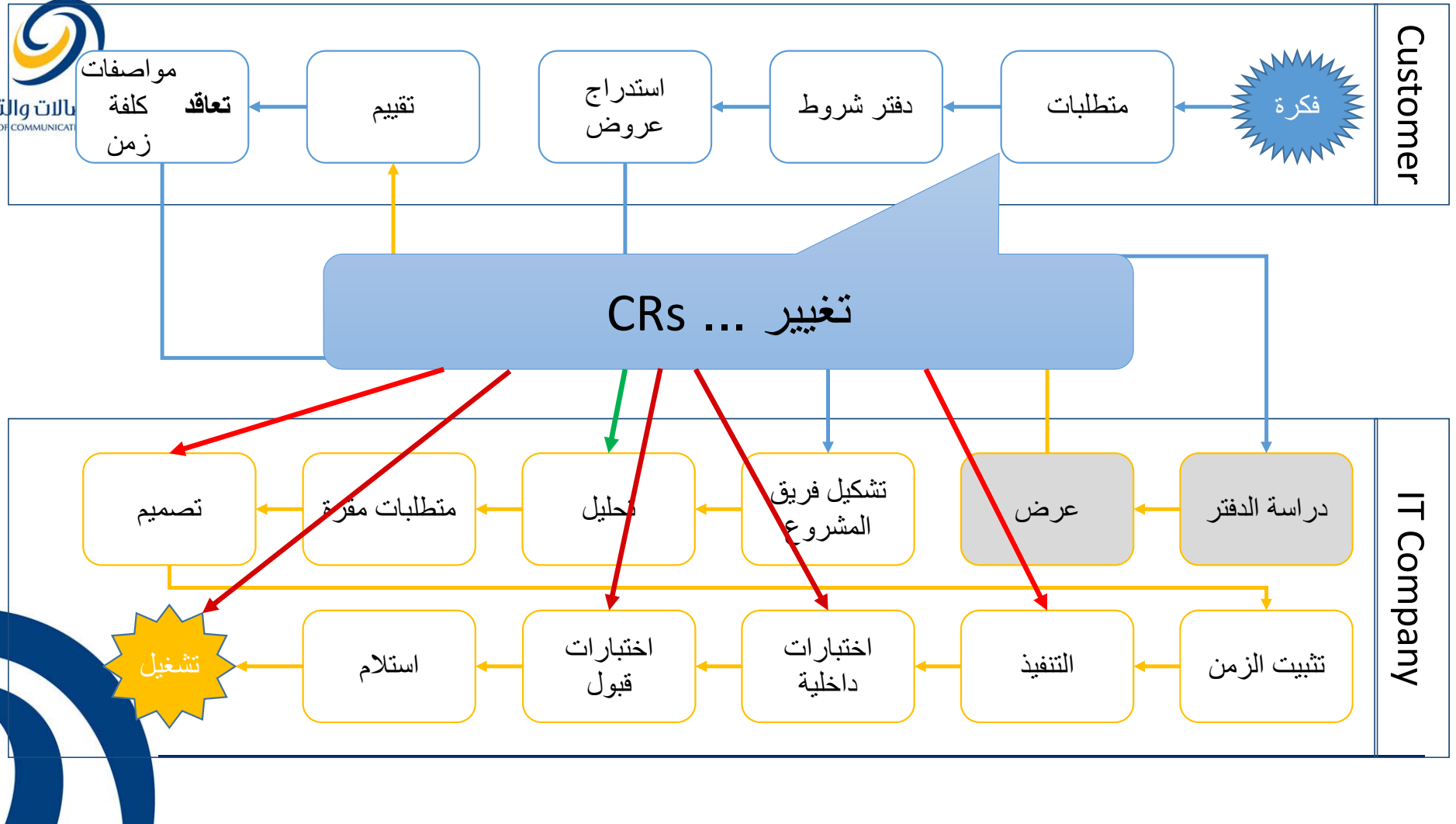
# مشاريع تقانة المعلومات

هل مشرونا ناجح



كيف يمكن زيادة احتمال النجاح







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## وثائق Work products

|                |                |                |                |                     |           |             |
|----------------|----------------|----------------|----------------|---------------------|-----------|-------------|
| نتائج الاختبار | حالات الاختبار | الخطط<br>Plans | التصميم        | المتطلبات المقترنة  | العقد     | دفتر الشروط |
| Releases       | Builds         | Audits         | Code revisions | Traceability Matrix | Code      | سجل الأخطاء |
| ...            | CR assess      | CR             | CR assess      | CR                  | CR assess | CR          |



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احتاج التنفيذ خمس سنوات بدلاً من واحدة



الزبون لا يعرف ماذا يريد



هذه الوظيفة لا يوجد من ينفذها



حجم التعديلات أكبر من دفتر الشروط



أين اختفت تعديلاتي



لجنة الاستلام تتهرب



هذا الإجراء ليس لهذا الزبون



هل مشروعنا ناجح



■ المواصفات

■ الكلفة

■ الزمن

■ الجودة

الفائدة المتحققة للعمل



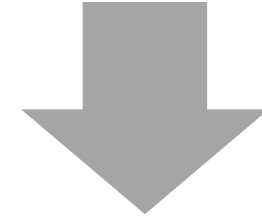
كيف يمكن زيادة احتمال النجاح



ضرورة اعتماد منهجيات مبرهنة  
لزيادة احتمال نجاح المشروع



حجم  
المشروع



احتمال  
النجاح

هل تحتاج شركتنا إلى تطوير الأداء



ما هي المجالات التي تحتاج إلى تطوير



كيف نطور الأداء في هذه المجالات





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CMMI



■ انطلق نموذج CMMI عام ١٩٨٤ لتقييم شركات البرمجيات العاملة مع وزارة الدفاع الأمريكية

■ دراسة آلاف الشركات

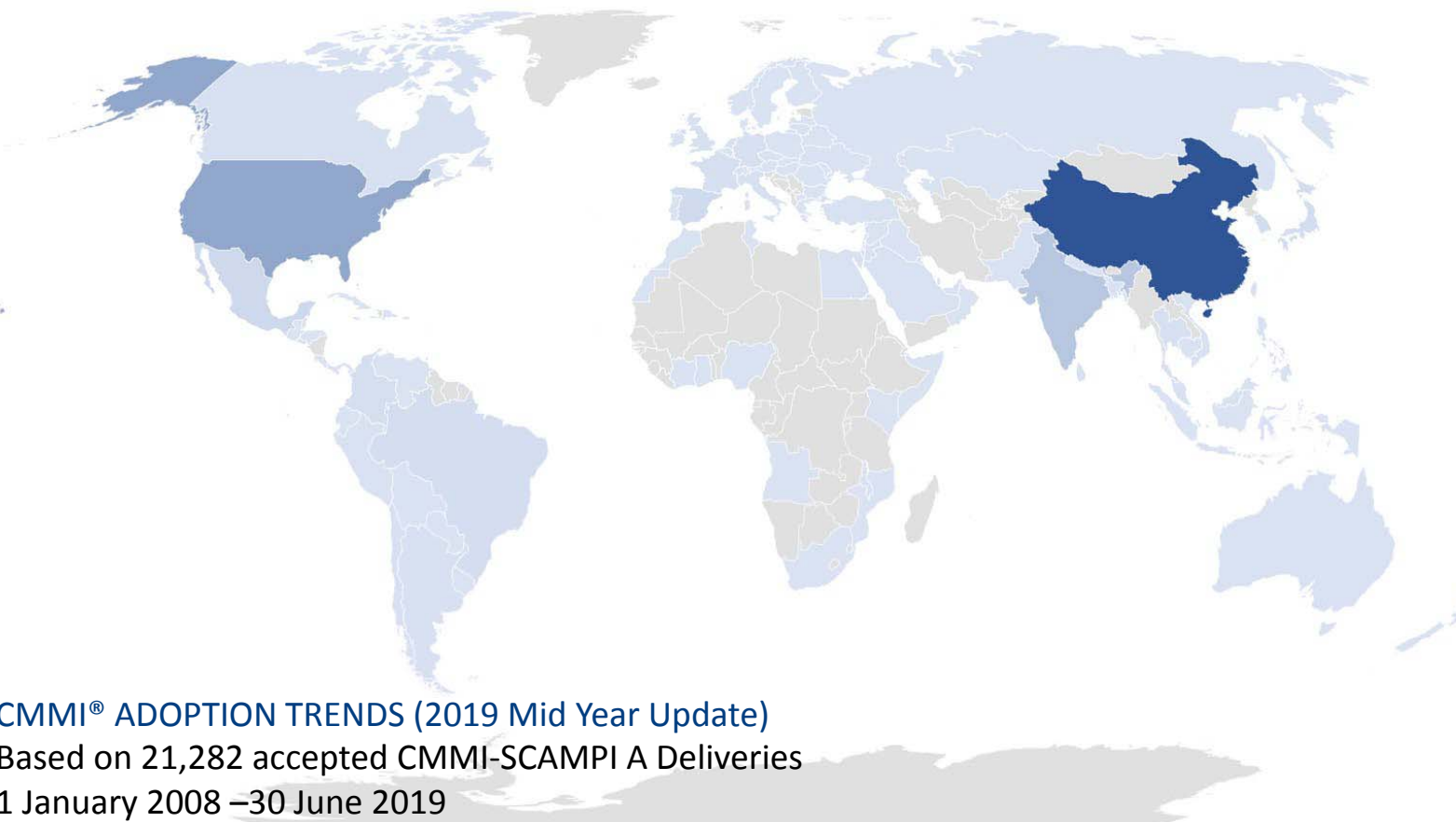
■ اليوم هنالك 9619 شركات مسجلة في الموقع





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# Benchmarks in 105 Countries








|    | Country        | #     |     | Country       | #  |
|----|----------------|-------|-----|---------------|----|
| 1  | China          | 10341 | 54  | Slovakia      | 11 |
| 2  | United States  | 4392  | 55  | Ecuador       | 10 |
| 3  | India          | 2066  | 56  | Finland       | 10 |
| 4  | Mexico         | 697   | 57  | Latvia        | 10 |
| 5  | Spain          | 579   | 58  | Luxembourg    | 10 |
| 6  | Korea          | 425   | 59  | Austria       | 8  |
| 7  | Japan          | 359   | 60  | Denmark       | 8  |
| 8  | Brazil         | 356   | 61  | Lebanon       | 8  |
| 9  | Colombia       | 297   | 62  | Norway        | 8  |
| 10 | France         | 223   | 63  | Mauritius     | 6  |
| 11 | Taiwan         | 182   | 64  | New Zealand   | 6  |
| 12 | United Kingdom | 175   | 65  | Sweden        | 6  |
| 13 | Germany        | 160   | 66  | Belarus       | 5  |
| 14 | Thailand       | 159   | 67  | Greece        | 5  |
| 15 | Argentina      | 138   | 68  | Guatemala     | 5  |
| 16 | Italy          | 125   | 69  | Qatar         | 5  |
| 17 | Canada         | 123   | 70  | Brunei        | 4  |
| 18 | Chile          | 118   | 71  | Bulgaria      | 4  |
| 19 | Turkey         | 109   | 72  | El Salvador   | 4  |
| 20 | Portugal       | 90    | 73  | Kenya         | 4  |
| 21 | Viet Nam       | 90    | 74  | Nigeria       | 4  |
| 22 | Egypt          | 87    | 75  | Oman          | 4  |
| 23 | Malaysia       | 84    | 76  | Syria         | 4  |
| 24 | Peru           | 83    | 77  | Tunisia       | 4  |
| 25 | Philippines    | 66    | 78  | Venezuela     | 4  |
| 26 | Singapore      | 45    | 79  | Angola        | 3  |
| 27 | Bangladesh     | 42    | 80  | Cyprus        | 3  |
| 28 | Saudi Arabia   | 42    | 81  | Bahrain       | 2  |
| 29 | Pakistan       | 40    | 82  | Cuba          | 2  |
| 30 | Australia      | 38    | 83  | Dominican     | 2  |
| 31 | Morocco        | 36    | 84  | Iraq          | 2  |
| 32 | Netherlands    | 36    | 85  | Jamaica       | 2  |
| 33 | Sri Lanka      | 33    | 86  | Macedonia     | 2  |
| 34 | Belgium        | 32    | 87  | Nepal         | 2  |
| 35 | Hong Kong      | 32    | 88  | Somalia       | 2  |
| 36 | Israel         | 30    | 89  | Andorra       | 1  |
| 37 | Switzerland    | 29    | 90  | Bolivia       | 1  |
| 38 | South Africa   | 27    | 91  | Cambodia      | 1  |
| 39 | Russia         | 26    | 92  | Comoros       | 1  |
| 40 | Poland         | 25    | 93  | Cote D'Ivoire | 1  |
| 41 | Romania        | 24    | 94  | Croatia       | 1  |
| 42 | UAE            | 23    | 95  | Ghana         | 1  |
| 43 | Uruguay        | 21    | 96  | Honduras      | 1  |
| 44 | Czech Republic | 18    | 97  | Kazakhstan    | 1  |
| 45 | Hungary        | 16    | 98  | Lithuania     | 1  |
| 46 | Indonesia      | 15    | 99  | Malawi        | 1  |
| 47 | Paraguay       | 15    | 100 | Malta         | 1  |
| 48 | Ukraine        | 14    | 101 | Moldova       | 1  |








CMMI® ADOPTION TRENDS (2019 Mid Year Update)  
Based on 21,282 accepted CMMI-SCAMPI A Deliveries  
1 January 2008 –30 June 2019

# Fortune 500 Organizations by Industry That Use CMMI in One or More Organizational Units

## Computer Software

|   | RANK       | COMPANY             | REVENUES (\$M) |
|---|------------|---------------------|----------------|
|  Microsoft               | <b>28</b>  | Microsoft           | \$85,320       |
|  ORACLE                  | <b>81</b>  | Oracle              | \$37,047       |
|  salesforce              | <b>326</b> | salesforce.com      | \$8,392        |
|  ACTIVISION<br>BLIZZARD | <b>406</b> | Activision Blizzard | \$6,608        |
|  Adobe                 | <b>443</b> | Adobe Systems       | \$5,854        |

## Computers/Office Equipment











|  | RANK       | COMPANY              | REVENUES (\$M) |
|--|------------|----------------------|----------------|
|                       | <b>3</b>   | Apple                | \$215,639      |
|  DELL<br>Technologies | <b>41</b>  | Dell Technologies    | \$64,806       |
|  hp                   | <b>61</b>  | HP                   | \$48,238       |
|  NCR                 | <b>409</b> | NCR                  | \$6,543        |
|  Pitney Bowes       | <b>663</b> | Pitney Bowes         | \$3,407        |
|  DN                 | <b>672</b> | Diebold Nixdorf      | \$3,341        |
|  SUPERMICR          | <b>884</b> | Super Micro Computer | \$2,216        |

# Fortune 500 Organizations by Industry That Use CMMI in One or More Organizational Units

## Aerospace and Defense

|   | RANK | COMPANY                       |  | REVENUES (\$M) |
|---|------|-------------------------------|--|----------------|
|    | 24   | Boeing                        |   | \$94,571       |
|    | 50   | United Technologies           |  | \$57,244       |
|    | 56   | Lockheed Martin               |   | \$50,658       |
|    | 90   | General Dynamics              |   | \$31,353       |
|    | 114  | Northrop Grumman              |   | \$24,508       |
|   | 116  | Raytheon                      |  | \$24,069       |
|  | 200  | Textron                       |  | \$13,788       |
|  | 228  | Arconic                       |  | \$12,394       |
|  | 273  | L3 Technologies               |  | \$10,597       |
|  | 380  | Huntington Ingalls Industries |  | \$7,068        |
|  | 393  | Spirit AeroSystems Holdings   |  | \$6,793        |
|  | 492  | Rockwell Collins              |  | \$5,259        |

## Information Technology Services

|   | RANK | COMPANY                        |   | REVENUES (\$M) |
|---|------|--------------------------------|---|----------------|
|    | 32   | IBM                            |    | \$79,919       |
|    | 59   | Hewlett Packard Enterprise     |   | \$50,123       |
|    | 199  | CDW                            |   | \$13,982       |
|    | 205  | Cognizant Technology Solutions |    | \$13,487       |
|    | 379  | Computer Sciences              |   | \$7,106        |
|  | 381  | Leidos Holdings                |   | \$7,043        |
|  | 481  | Booz Allen Hamilton Holding    |  | \$5,406        |



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CMMI

طريقة معيارية لتقييم مقدرات وأداء الشركات  
ولتطويرها المتدرج واستدامتها



What



not How





# CMMI V2.0 Product Suite





# The CMMI Model

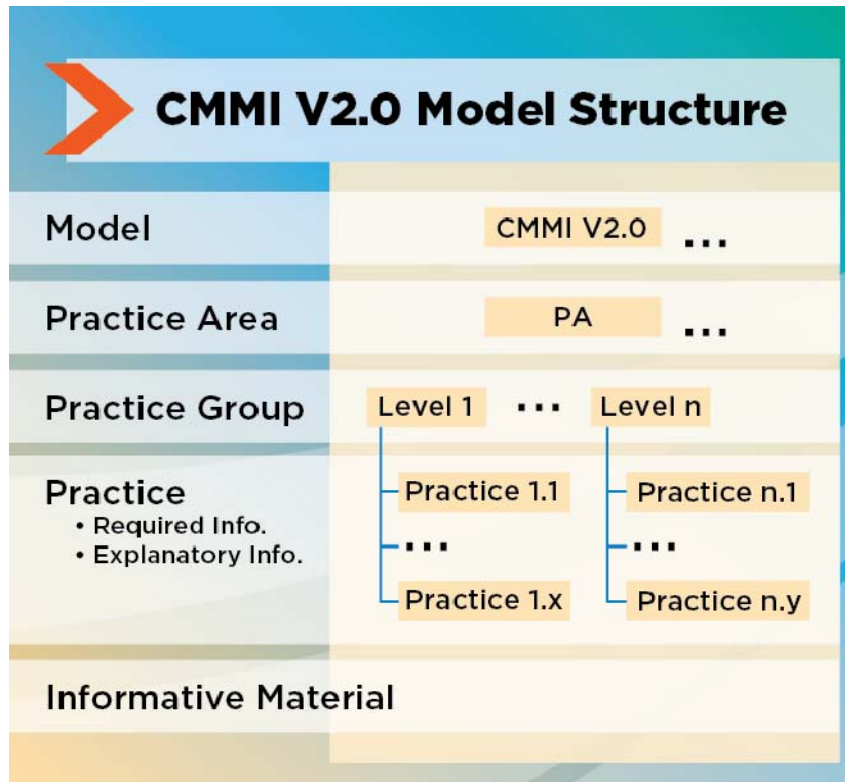
- 1 2000
- 1.1 2002
- 1.2 2006
- 1.3 2010
- 2.0 2018
- 2.1 2020

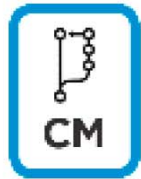


## PAAs of CMMI-DEV ML2

|                         |   |      |
|-------------------------|---|------|
| Maturity Level<br><br>2 | 1 Requirements Development & Management | RDM  |
|                         | 2 Estimating                            | EST  |
|                         | 3 Planning                              | PLAN |
|                         | 4 Monitor & Control                     | MC   |
|                         | 5 Process Quality Assurance             | PQA  |
|                         | 6 Configuration Management              | CM   |
|                         | 7 Managing Performance & Measurement    | MPM  |
|                         | 8 Supplier Agreement Management         | SAM  |
|                         | 9 Governance                            | GOV  |
|                         | 10 Implementation Infrastructure        | II   |

# The Model Structure





# Configuration Management (CM)

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## PA Overview

### **Required PA Information**

#### ***Intent***

Manage the integrity of work products using configuration identification, version control, change control, and audits.

#### ***Value***

Reduces loss of work and increases the ability to deliver the correct version of the solution to the customer.

#### ***Additional Required PA Information***

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## Explanatory PA Information

### *Practice Summary*

#### **Level 1**

CM 1.1 Perform version control.

#### **Level 2**

CM 2.1 Identify **items** to be placed under configuration management.

CM 2.2 Develop, keep updated, and use a configuration and change management **system**.

CM 2.3 Develop or release **baselines** for internal use or for delivery to the customer.

CM 2.4 Manage **changes** to the items under configuration management.

CM 2.5 Develop, keep updated, and use **records** describing items under configuration management.

CM 2.6 Perform configuration **audits** to maintain the integrity of configuration baselines, changes, and content of the configuration management system.

### *Additional PA Explanatory Information*

Planning for configuration management activities includes controlling work products developed



# Capability Levels

■ تحصل الشركة على مستوى مقدرة بالنسبة لمجال أنشطة ما (PA)



# Achieve a Capability Level





# Maturity Levels

■ تحصل الشركة على مستوى نضوج إذا حصلت على مستوى مقدرة مساوي في كل مجالات الأنشطة المعرفة لمستوى النضوج المقصود

MATURITY  
LEVEL  
5

Optimizing

**Stable and flexible.** Organization is focused on continuous improvement and is built to pivot and respond to opportunity and change. The organization's stability provides a platform for agility and innovation.

MATURITY  
LEVEL  
4

Quantitatively  
Managed

**Measured and controlled.** Organization is data-driven with quantitative performance improvement objectives that are predictable and align to meet the needs of internal and external stakeholders.

MATURITY  
LEVEL  
3

Defined

**Proactive, rather than reactive.** Organization-wide standards provide guidance across projects, programs and portfolios.

MATURITY  
LEVEL  
2

Managed

**Managed on the project level.** Projects are planned, performed, measured, and controlled.

MATURITY  
LEVEL  
1

Initial

**Unpredictable and reactive.** Work gets completed but is often delayed and over budget.

MATURITY  
LEVEL  
0

Incomplete

**Ad hoc and unknown.** Work may or may not get completed.



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## PAs of CMMI DEV ML2 (view)

| <b>CMMI DEVELOPMENT WITH SAM VIEW: Level 2 Requirements</b> |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|
| Practice Area   | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
| Causal Analysis and Resolution (CAR)                        |         |         |         |         |         |
| Decision Analysis and Resolution (DAR)                      |         |         |         |         |         |
| Risk and Opportunity Management (RSK)                       |         |         |         |         |         |
| Organizational Training (OT)                                |         |         |         |         |         |
| Process Management (PCM)                                    |         |         |         |         |         |
| Process Asset Development (PAD)                             |         |         |         |         |         |
| Peer Reviews (PR)   |         |         |         |         |         |
| Verification and Validation (VV)                            |         |         |         |         |         |
| Technical Solution (TS)                                     |         |         |         |         |         |
| Product Integration (PI)                                    |         |         |         |         |         |
| Managing Performance and Measurement (MPM)                  |         |         |         |         |         |
| Supplier Agreement Management (SAM)                         |         |         |         |         |         |
| Process Quality Assurance (PQA)                             |         |         |         |         |         |
| Configuration Management (CM)                               |         |         |         |         |         |
| Monitor and Control (MC)                                    |         |         |         |         |         |
| Planning (PLAN)   |         |         |         |         |         |
| Estimating (EST)  |         |         |         |         |         |
| Requirements Development and Management (RDM)               |         |         |         |         |         |
| Governance (GOV)  |         |         |         |         |         |
| Implementation Infrastructure (II)                          |         |         |         |         |         |



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## CMMI DEV ML3

### CMMI DEVELOPMENT WITH SAM VIEW: Level 3 Requirements

| Practice Area                                 | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---------|---------|---------|---------|---------|
| Causal Analysis and Resolution (CAR)          |         |         |         |         |         |
| Decision Analysis and Resolution (DAR)        |         |         |         |         |         |
| Risk and Opportunity Management (RSK)         |         |         |         |         |         |
| Organizational Training (OT)                  |         |         |         |         |         |
| Process Management (PCM)                      |         |         |         |         |         |
| Process Asset Development (PAD)               |         |         |         |         |         |
| Peer Reviews (PR)                             |         |         |         |         |         |
| Verification and Validation (VV)              |         |         |         |         |         |
| Technical Solution (TS)                       |         |         |         |         |         |
| Product Integration (PI)                      |         |         |         |         |         |
| Managing Performance and Measurement (MPM)    |         |         |         |         |         |
| Supplier Agreement Management (SAM)           |         |         |         |         |         |
| Process Quality Assurance (PQA)               |         |         |         |         |         |
| Configuration Management (CM)                 |         |         |         |         |         |
| Monitor and Control (MC)                      |         |         |         |         |         |
| Planning (PLAN)                               |         |         |         |         |         |
| Estimating (EST)                              |         |         |         |         |         |
| Requirements Development and Management (RDM) |         |         |         |         |         |
| Governance (GOV)                              |         |         |         |         |         |
| Implementation Infrastructure (II)            |         |         |         |         |         |



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# CMMI DEV ML4

## CMMI DEVELOPMENT WITH SAM VIEW: Level 4 Requirements

| Practice Area                                 | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---------|---------|---------|---------|---------|
| Causal Analysis and Resolution (CAR)          | Red     | Red     | Red     | Red     | Grey    |
| Decision Analysis and Resolution (DAR)        | Red     | Red     | Red     | Red     | Black   |
| Risk and Opportunity Management (RSK)         | Red     | Red     | Red     | Red     | Black   |
| Organizational Training (OT)                  | Red     | Red     | Red     | Red     | Black   |
| Process Management (PCM)                      | Red     | Red     | Red     | Red     | Black   |
| Process Asset Development (PAD)               | Red     | Red     | Red     | Red     | Black   |
| Peer Reviews (PR)                             | Red     | Red     | Red     | Red     | Black   |
| Verification and Validation (VV)              | Red     | Red     | Red     | Red     | Black   |
| Technical Solution (TS)                       | Red     | Red     | Red     | Red     | Black   |
| Product Integration (PI)                      | Red     | Red     | Red     | Red     | Black   |
| Managing Performance and Measurement (MPM)    | Red     | Red     | Red     | Red     | Grey    |
| Supplier Agreement Management (SAM)           | Red     | Red     | Red     | Red     | Black   |
| Process Quality Assurance (PQA)               | Red     | Red     | Red     | Red     | Black   |
| Configuration Management (CM)                 | Red     | Red     | Red     | Red     | Black   |
| Monitor and Control (MC)                      | Red     | Red     | Red     | Red     | Black   |
| Planning (PLAN)                               | Red     | Red     | Red     | Red     | Black   |
| Estimating (EST)                              | Red     | Red     | Red     | Red     | Black   |
| Requirements Development and Management (RDM) | Red     | Red     | Red     | Red     | Black   |
| Governance (GOV)                              | Red     | Red     | Red     | Red     | Black   |
| Implementation Infrastructure (II)            | Red     | Red     | Red     | Red     | Black   |





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# CMMI DEV ML5

## CMMI DEVELOPMENT WITH SAM VIEW: Level 5 Requirements

| Practice Area                                 | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 |
|---|---------|---------|---------|---------|---------|
| Causal Analysis and Resolution (CAR)          | Green   | Green   | Green   | Green   | Green   |
| Decision Analysis and Resolution (DAR)        | Green   | Green   | Green   | Green   | Green   |
| Risk and Opportunity Management (RSK)         | Green   | Green   | Green   | Green   | Green   |
| Organizational Training (OT)                  | Green   | Green   | Green   | Green   | Green   |
| Process Management (PCM)                      | Green   | Green   | Green   | Green   | Green   |
| Process Asset Development (PAD)               | Green   | Green   | Green   | Green   | Green   |
| Peer Reviews (PR)                             | Green   | Green   | Green   | Green   | Green   |
| Verification and Validation (VV)              | Green   | Green   | Green   | Green   | Green   |
| Technical Solution (TS)                       | Green   | Green   | Green   | Green   | Green   |
| Product Integration (PI)                      | Green   | Green   | Green   | Green   | Green   |
| Managing Performance and Measurement (MPM)    | Green   | Green   | Green   | Green   | Green   |
| Supplier Agreement Management (SAM)           | Green   | Green   | Green   | Green   | Green   |
| Process Quality Assurance (PQA)               | Green   | Green   | Green   | Green   | Green   |
| Configuration Management (CM)                 | Green   | Green   | Green   | Green   | Green   |
| Monitor and Control (MC)                      | Green   | Green   | Green   | Green   | Green   |
| Planning (PLAN)                               | Green   | Green   | Green   | Green   | Green   |
| Estimating (EST)                              | Green   | Green   | Green   | Green   | Green   |
| Requirements Development and Management (RDM) | Green   | Green   | Green   | Green   | Green   |
| Governance (GOV)                              | Green   | Green   | Green   | Green   | Green   |
| Implementation Infrastructure (II)            | Green   | Green   | Green   | Green   | Green   |



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# CMMI & Agile



إعلان أجايل لتطوير البرمجيات

الأفراد وتعاملهم فيما بينهم فوق المنظومات والأدوات  
البرمجيات الصالحة للاستعمال فوق التوثيق الكامل  
تعاون ومشاركة العميل فوق التفاوض حول العقد  
الاستجابة للتغييرات فوق الالتزام بمخطط عمل محدد

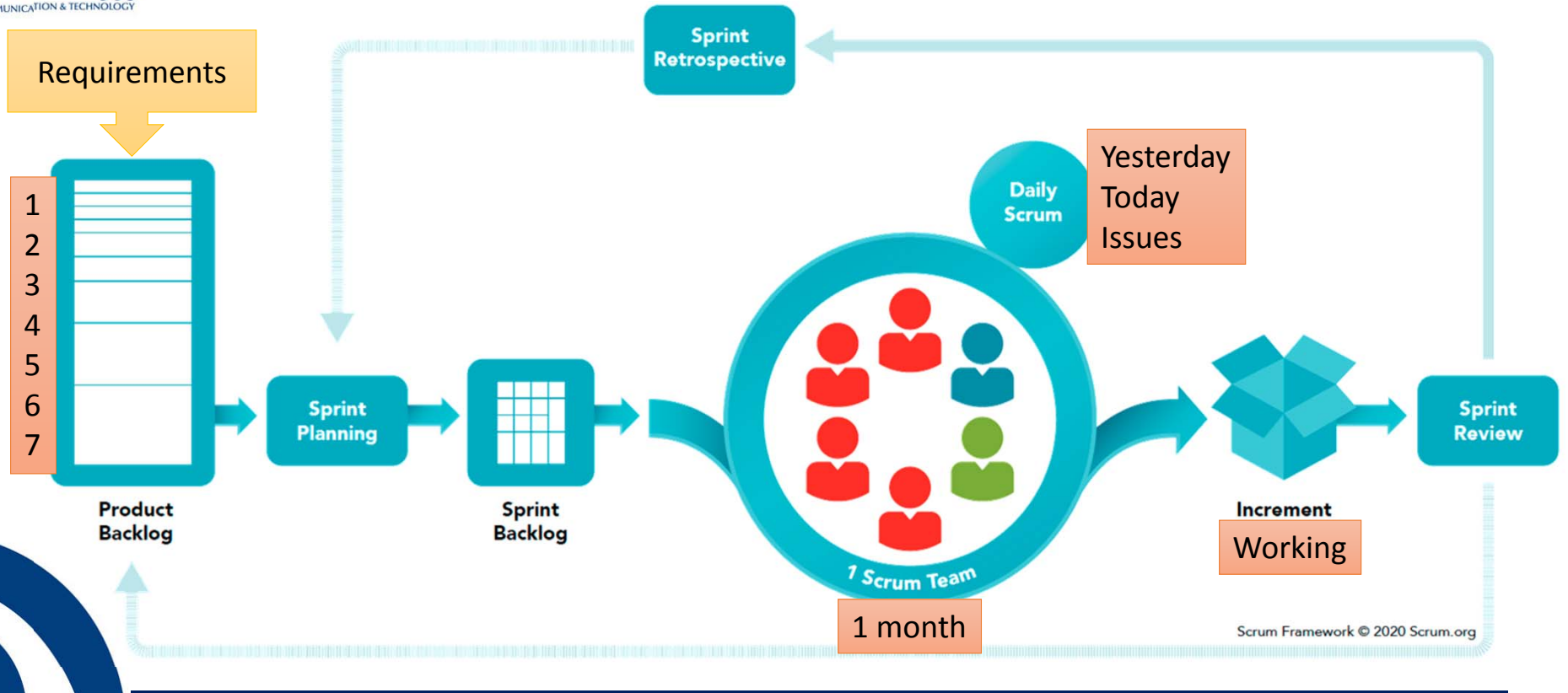
ويعني ذلك أنه على الرغم من كون العناصر على الجانب الأيسر ذات قيمة،  
فإننا نعطي قيمة أكبر للعناصر على الجانب الأيمن.

2001



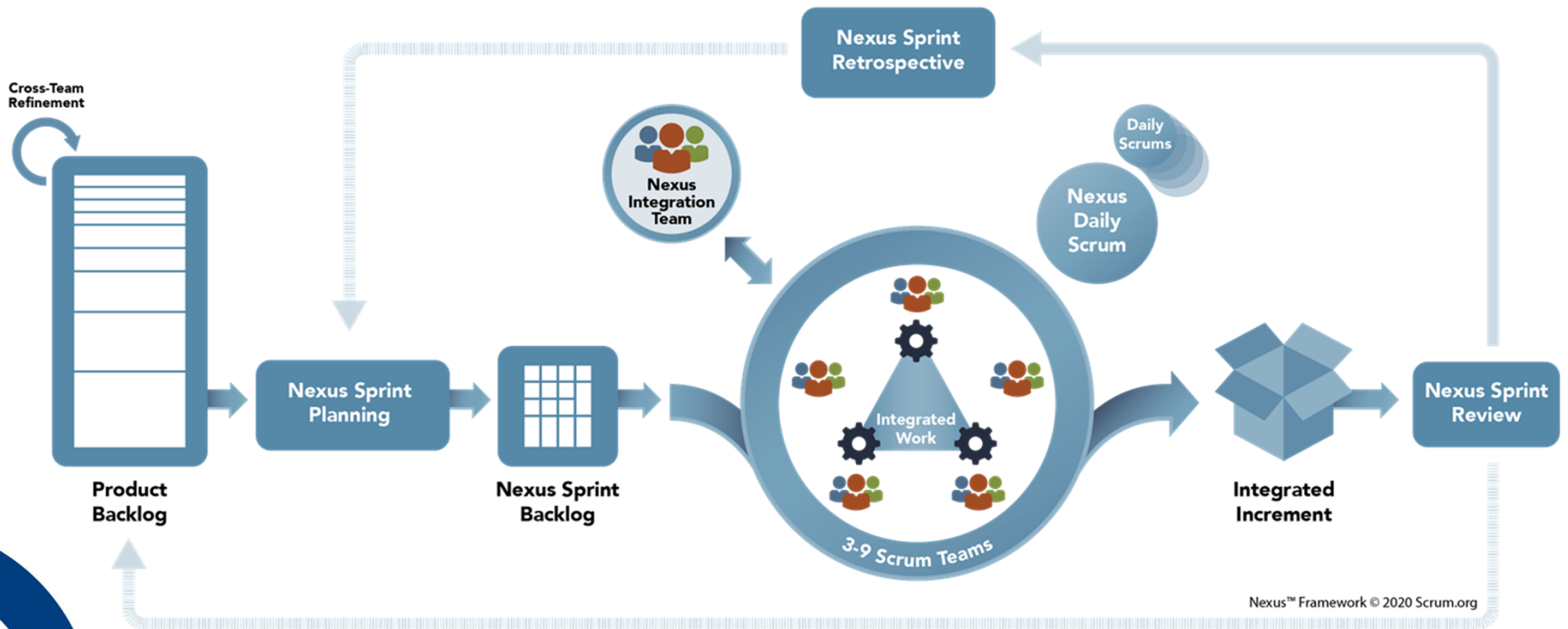
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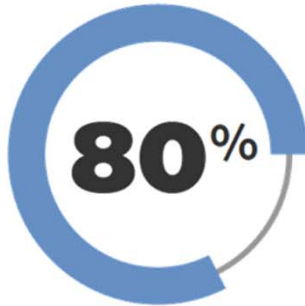
# SCRUM FRAMEWORK





# The Nexus Framework





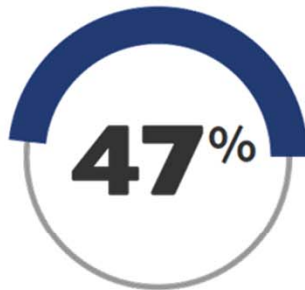
OF TEAMS ARE AT OR BELOW "STILL MATURING" WITH AGILE



OF CORPORATE LEADERS HAVE A PHILOSOPHY THAT CONFLICTS WITH CORE AGILE VALUES



OF IT ORGANIZATIONS HAVE LESS THAN HALF OF THEIR TEAMS PRACTICING AGILE



OF TEAMS LACK EXPERIENCE WITH AGILE METHODS AND TECHNIQUES



OF TECH LEADERS DO NOT HAVE LEADERSHIP SKILLS NEEDED FOR LARGE-SCALE AGILITY



OF TEAMS LACK MANAGEMENT SUPPORT



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## AGILE IS...

هل نجحنا في تطبيق آجيل



ما أثر تطبيق آجيل على العمل



■ الثقة والتعاون

■ أولوية القيمة للعمل

■ التنظيم الذاتي



## CMMI & Agile ... Scrum

■ ٨٠٪ من الشركات المقيمة في السنوات الأخيرة تستخدم Agile

■ Context Specific **Context Tag: Agile with Scrum**

■ النموذج نفسه بنسخته الجديدة أصبح أكثر مرونة وانفتاح

■ يساعد CMMI في توسيع استخدام Agile على مستوى الشركة وفي المشاريع الكبيرة





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# Adoption guidance





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## Adoption guidance

- دعم كامل ومتابعة من الإدارة
- تركيز جهود التطوير لرفع الأداء
- برنامج عمل فعال وتدرجي ومستمر



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## الإدارة Governance

- ممارسات الإدارة العليا لتحسين طرق التنفيذ الهامة للعمل وللشركة
- وضع الاستراتيجيات والتوجهات والتوقعات لتطوير الأداء
- ضمان انسجام الإجراءات مع احتياجات العمل وأهدافه
- مراقبة تطور الأداء والإجراءات
- توفير الموارد المناسبة لتطوير الأداء والإجراءات
- تعزيز وتحفيز تطوير واستخدام الإجراءات لضمان استمرار استخدامها وتحسينها



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## البنية التحتية Infrastructure

المطلوبة لبناء واستخدام واستدامة وتطور الإجراءات

■ توصيف الإجراءات

■ الموارد المطلوبة (البشرية، الأدوات، المواد، التسهيلات، الوقت)

■ تمويل تنفيذ الإجراءات

■ التدريب على الإجراءات حسب المسؤوليات

■ تقييم الإجراءات الموضوعي لضمان تنفيذ العمل وفقاً للغايات







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# Appraisal





# Appraisal

- تحديد نقاط القوة والضعف لدى الشركة ومدى توافق إجراءاتها مع نموذج CMMI
- يسمح بوضع خطة لسد الثغرات، وبنتيجته يتم الحصول على الاعتمادية

| Appraisal Type          | Ratings                 | Validity  | Most like appraisal in CMMI V1.3 |
|-------------------------|-------------------------|---|----------------------------------|
| Benchmark               | Yes                     | 3 Years   | SCAMPI A                         |
| Sustainment             | Yes                     | 2 Years, if eligible, after a CMMI V2.0 Benchmark | Not Applicable                   |
| Action Plan Reappraisal | Same as prior appraisal | Same as prior appraisal                           | APR                              |
| Evaluation              | No                      | Not Applicable                                    | SCAMPI B & C                     |

Highlight the. 2





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# Appraisal Results

## Published Appraisal Results

**Model View:**

Any Model View



**Country:**

Any Country



**Target Level:**

Any Maturity Level



**Year:**

Any Year



CLEAR

APPLY





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شكراً

