

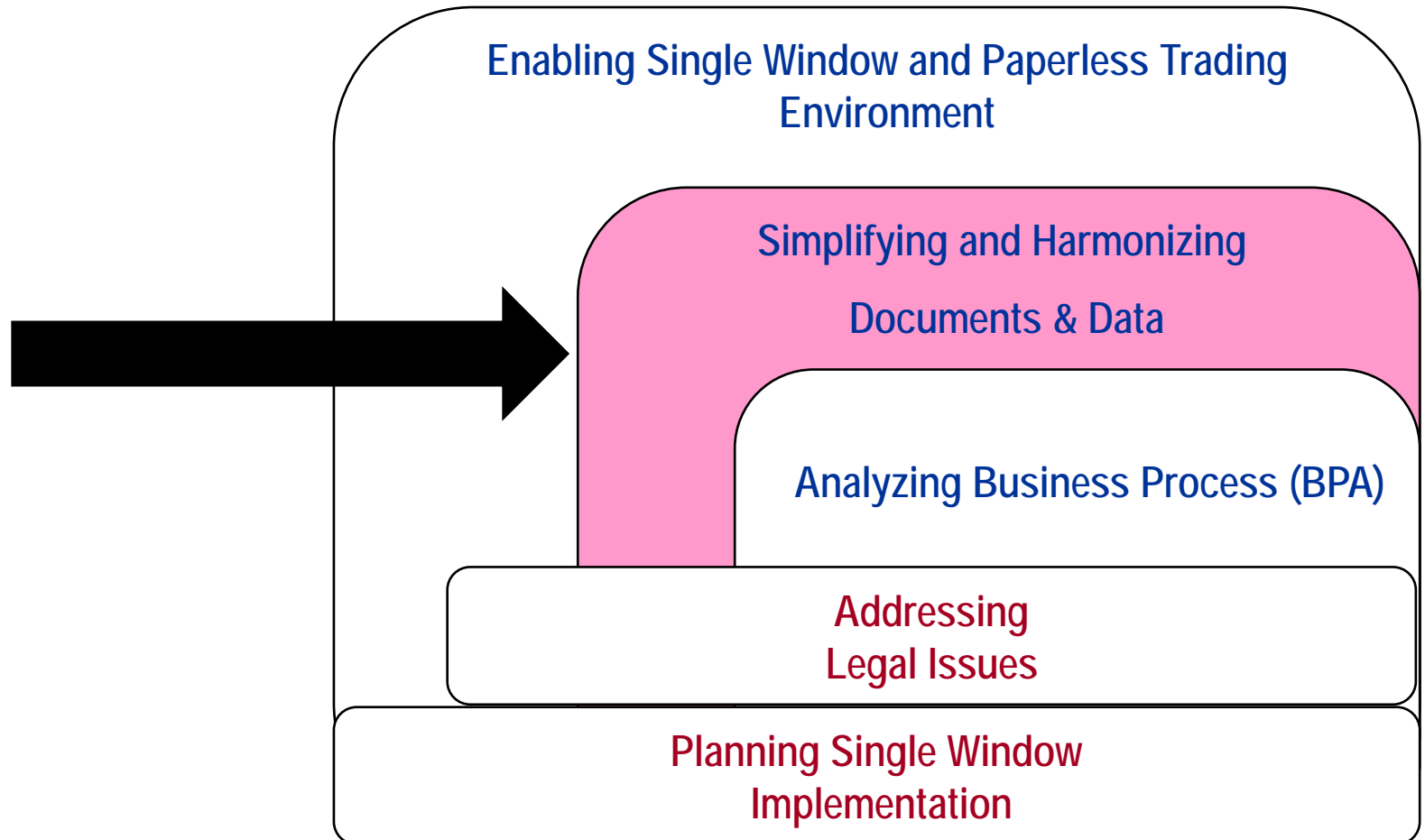
# Introduction to Data Harmonization and Modelling

**15 October 2013**

**Customs Border Control Training Center  
Cheon-an, Republic of Korea**

**Sangwon Lim  
Trade and Investment Division  
United Nations ESCAP**

# Data Harmonization and Modeling: Where does it fit in SW implementation?



# Data Harmonization and Trade Facilitation

<b>Trade Facilitation</b>	<b>APEC</b> (Woo and Wilson, 2000)	<b>OECD</b> (OECD, 2002)	<b>UNECE</b> (UNECE, 2002; OECD, 2002)	<b>WB</b> (World Bank, 2005)	<b>WTO</b> (WTO Website, 2005; OECD 2002)
<b>The simplification and harmonization of trade Procedures</b>	✓	✓	✓	✓	✓
<b>The harmonization and standardization of information and information flows associated with the international trade transaction</b>		✓	✓	✓	✓
<b>The use, standardization, and improvement of physical infrastructure and facilities</b>	✓		✓	✓	
<b>The harmonization of applicable laws and regulations with the international standards</b>			✓	✓	
<b>The automation of trade Procedures</b>	✓			✓	
<b>The removal of barriers to the mobility of business people</b>	✓				

# Data Simplification, Harmonization and Standardization

Elimination of  
Unnecessary and  
redundant  
data

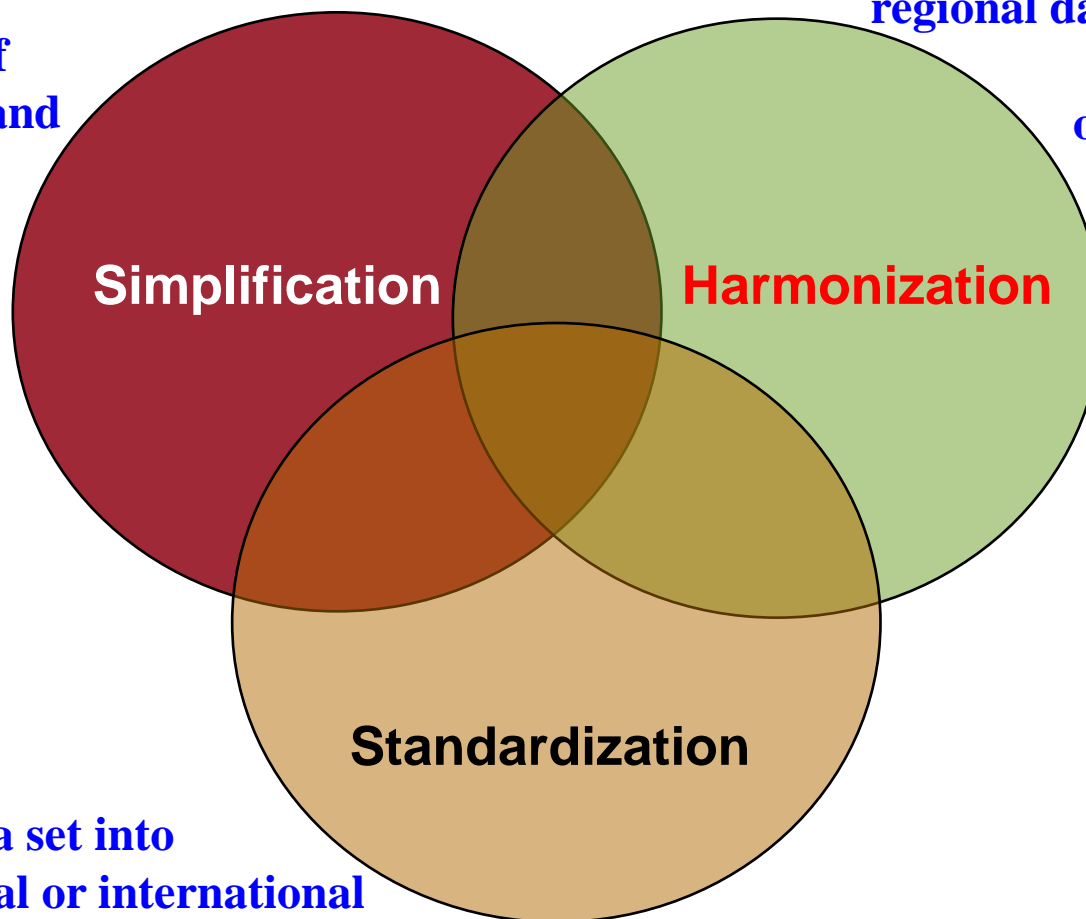
**Simplification**

Alignment of domain, national or  
regional data to national,  
regional  
or international  
data set

**Harmonization**

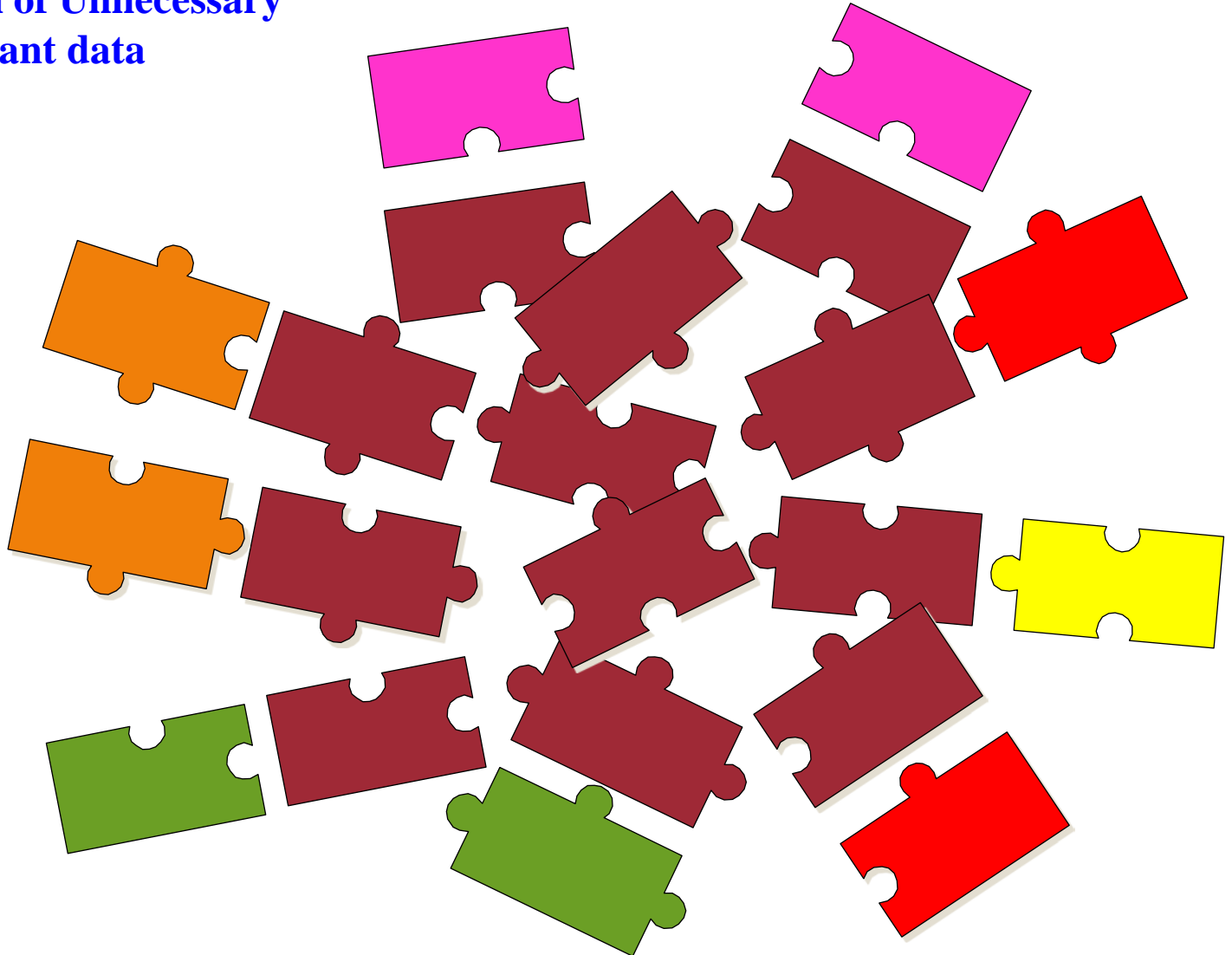
**Standardization**

Progressing data set into  
national, regional or international  
standards through standard bodies



# Data Simplification

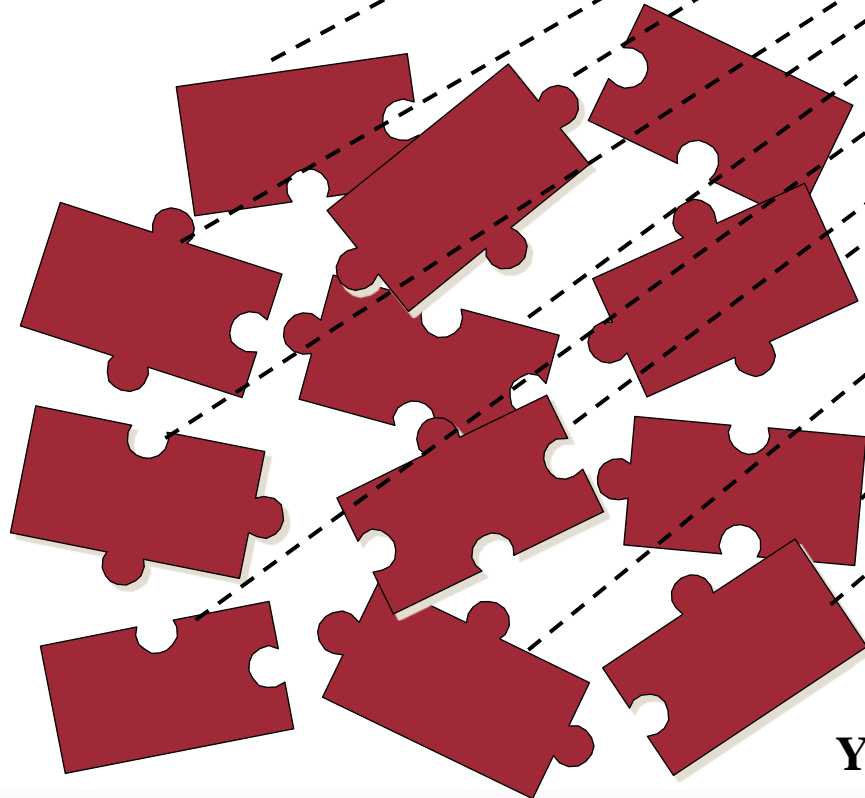
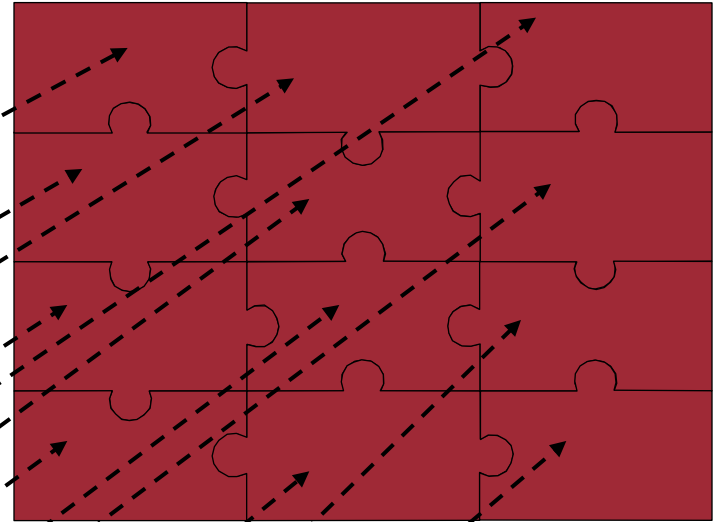
Elimination of Unnecessary  
and redundant data



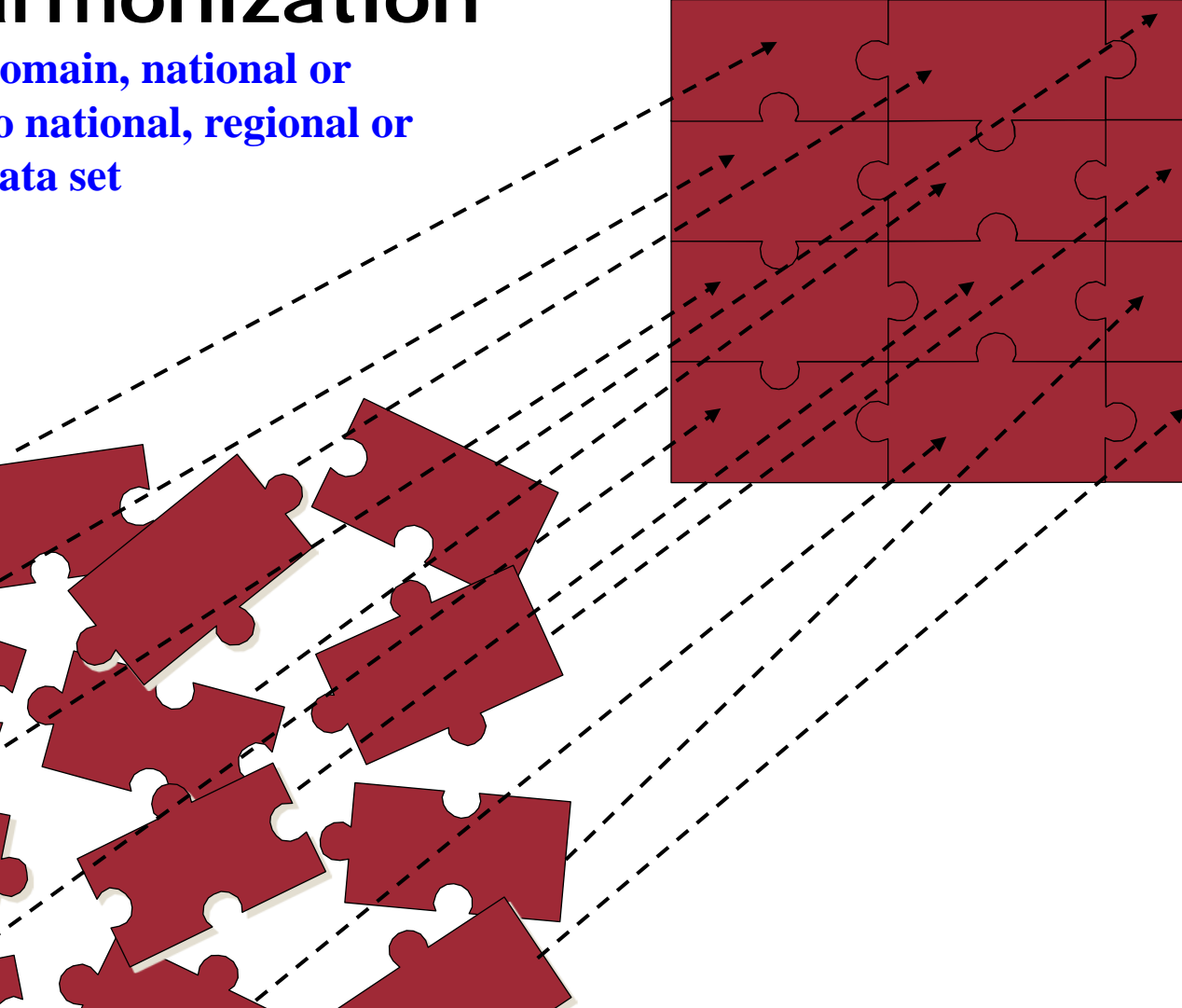
# Data Harmonization

Alignment of domain, national or regional data to national, regional or international data set

Nat'l/Regional/Int'l Data Set



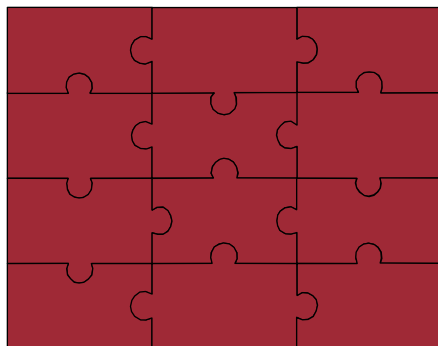
Your Data Set



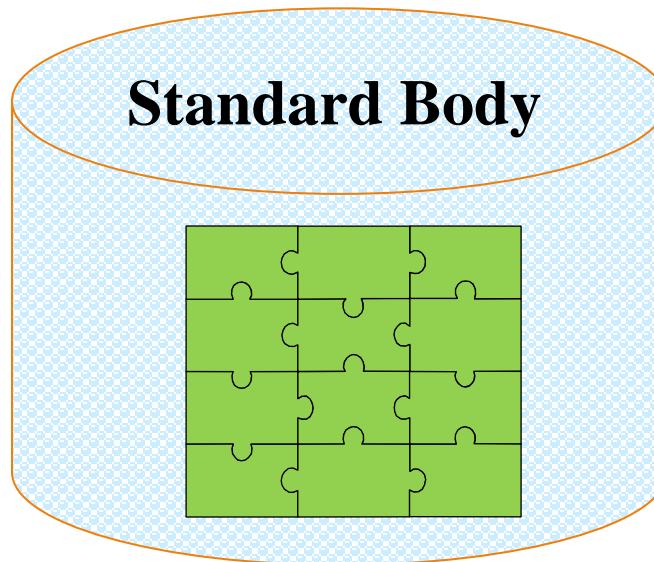
# Data Standardization

Progressing data set into national, regional or international standards through standard bodies

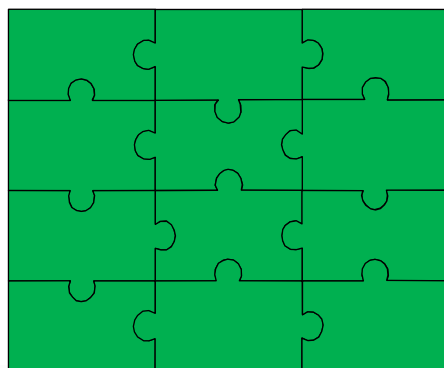
Harmonized Data



Standard Body



Nat'l/Regional/Int'l  
Standards



# From Paper..to paperless Trade

- Trade using paper documents is based on human to human interaction
- Common understanding of
  - who does what and how
  - What information means
  - ..and how it is interpreted
- Communication between computers requires precise definitions of
  - The processes (who, what, how, when, why)

预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_6582](https://www.yunbaogao.cn/report/index/report?reportId=5_6582)

