# The Business Architecture journey at Huawei: importance of a metamodel



Dr. Giovanni Traverso – Corporate Chief Business Architect Huawei headquarters, Shenzhen (China) giovanni.traverso@huawei.com



## This is Huawei



A privately-owned Global Company



**An Innovative Industry Contributor** 



**An ICT Industry Leader** 



# A Privately-owned Global Company















- A global company providing information and communications technology (ICT) solutions.
- Products and solutions have been deployed in 170+ countries, serving 1/3 of the world's population.
- A privately-owned company founded in 1987, Shenzhen













## **Broad Portfolio**

#### Carrier Business Group



- Fixed Network
- Wireless Network
- Global Services
- Telecom Software and Core Network
- Network Energy

#### Enterprise Business Group

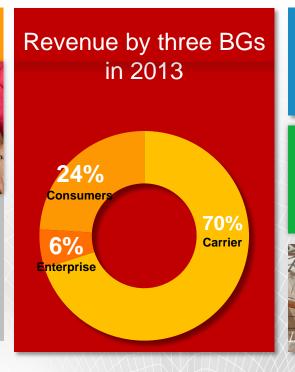


- Enterprise Networking
- Cloud Computing and Data
   Centers
- UC&C
- Management and Tools
- Wireless

#### Consumer Business Group



- Smartphones
- Mobile Broadband
- Home Devices





# **Global Footprints**

170+
Countries



16 R&D Centers

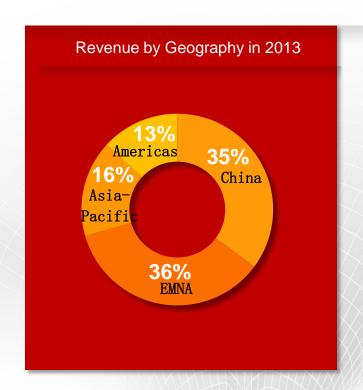
28
Joint Innovation Centers

15 Regional HQs

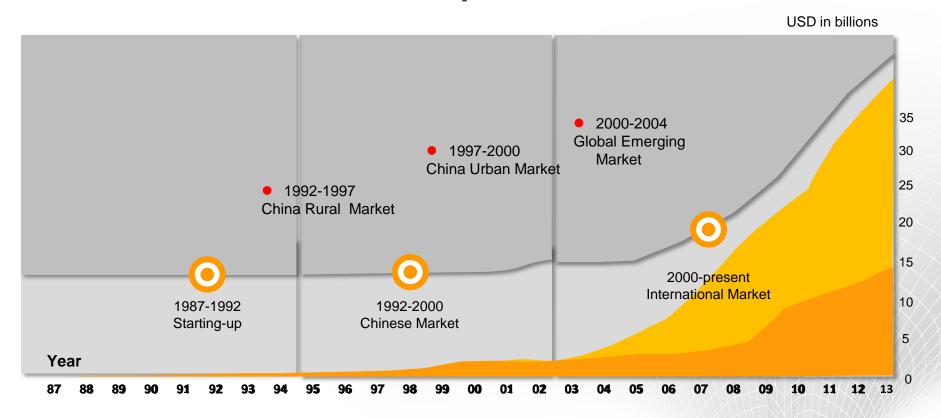


45
Training
Centers

150,000 Employees Worldwide



# **Phases of Huawei's Development**



# Spectacular growth...

1992-2000

Chinese Market



# brings challenges

- Young company
- Young population
- Fast pace of transformation

- ⇒ Established Business Process & IT & Quality, with two missions:
- ⇒ Emphasis on business process practice and governance

**W** HUAWEI

2000-present International Market

⇒ Emphasis on transformation management

Page 6



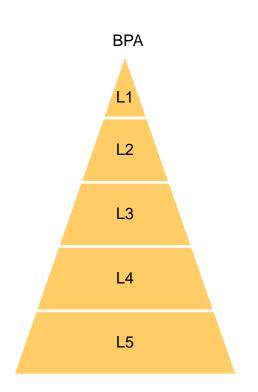
1987-1992

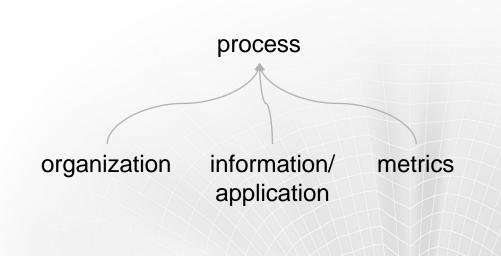
Starting-up

HUAWEI TECHNOLOGIES CO., LTD.

Year

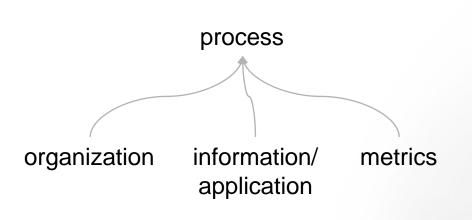
# Construction of a structured process framework (à-la APQC) was necessary...





Process became the "point of accumulation" of the whole system.

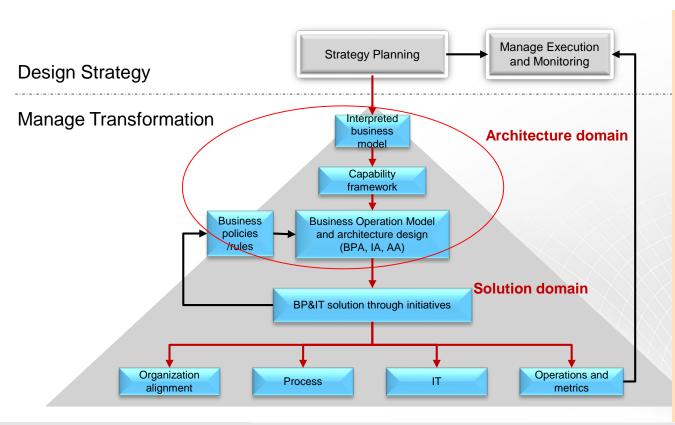
# The structured process framework was necessary... but not enough...



- Process <u>changes</u> over time => unstable accumulation point
- No clear way to reflect end-to-end business across different process <u>silos</u>
- Process design is slow and therefore difficult to <u>coordinate</u> with IT design
- Difficult to engage the business and no obvious link with business <u>strategy</u>
- ⇒ Transformation tends to be confused with "pain-point" fix in a "bottom-up" fashion



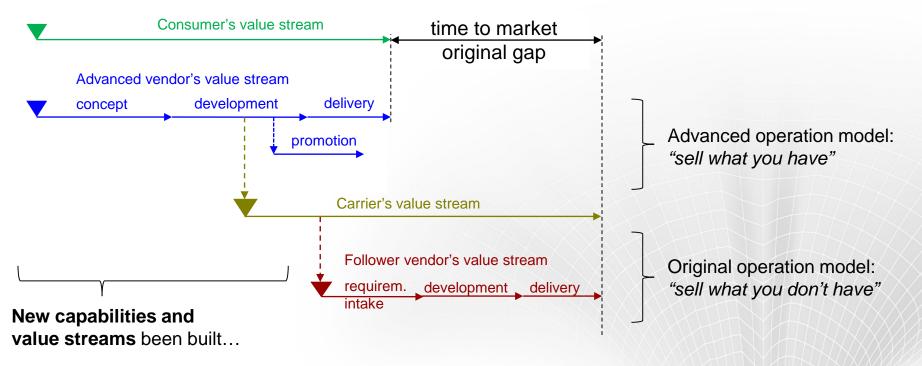
# ... We needed to establish a Business Architecture capacity



- Anchor architecture to a **stable** reference
- <u>Holistic</u> impact awareness
- <u>Top-down</u>, <u>coordinated</u> development of process/org/IT
- Bridge with business
- ⇒ Enable build on a solid vision, based on future (strategy) not only on the past (pain-points)



# We started building BA capacity and trust through practice in a few critical projects, as in this example:

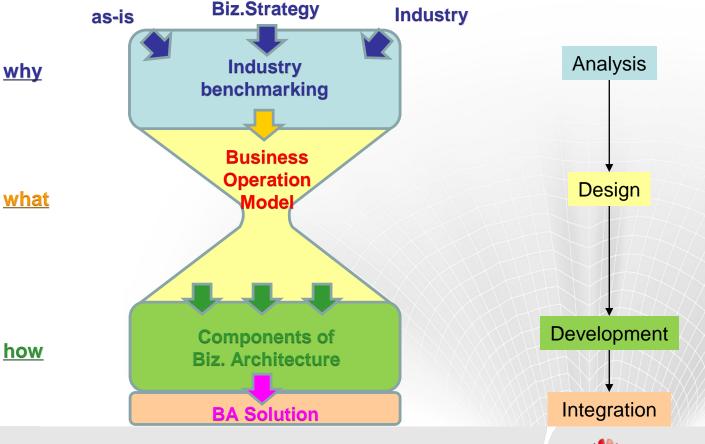


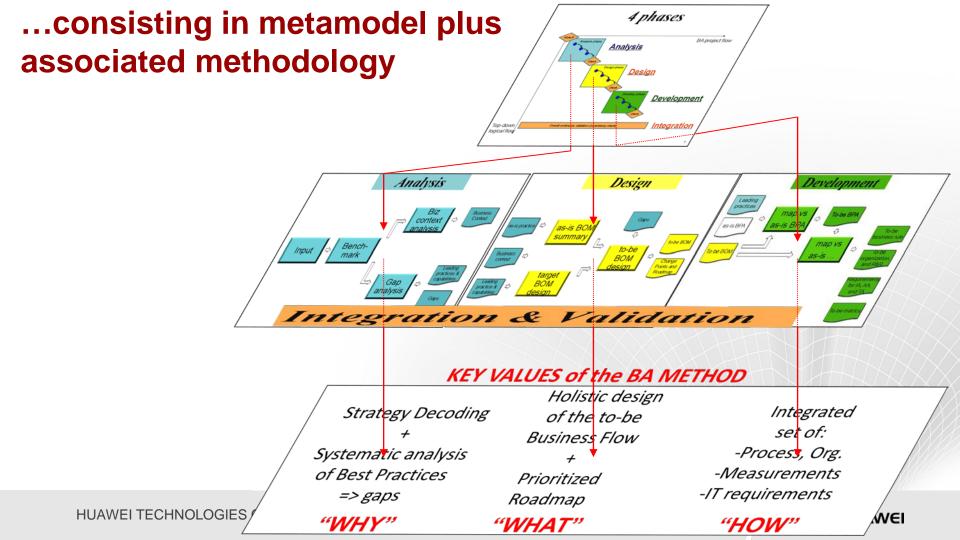
...allowed Huawei to evolve from niche player and become #3 WW smartphone vendor in 2Y

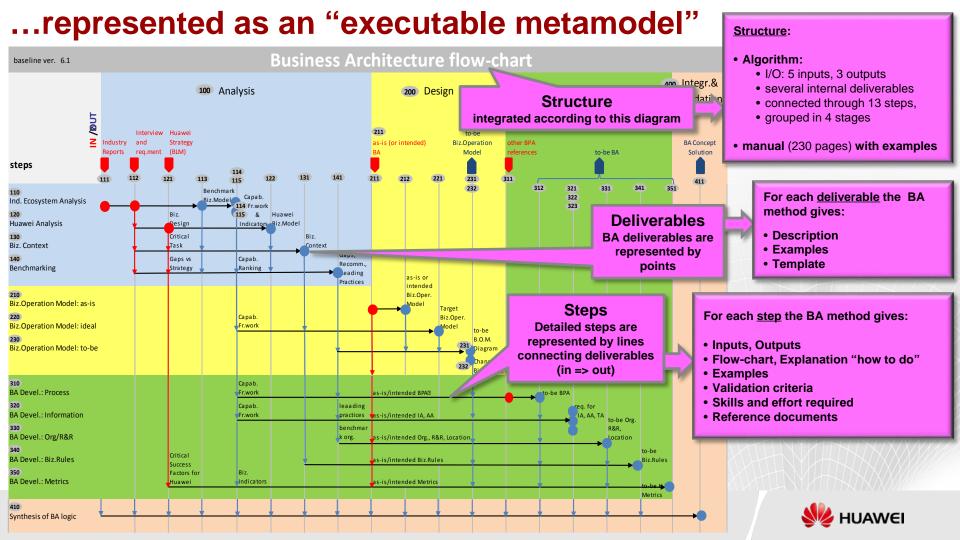


The BA practice was then consolidated into a repeatable

framework





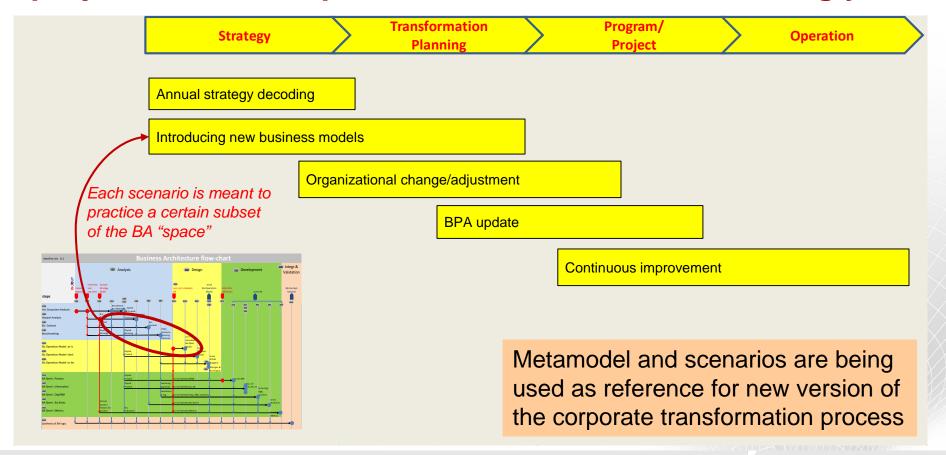


# We mapped BA clients' needs within the transformation flow

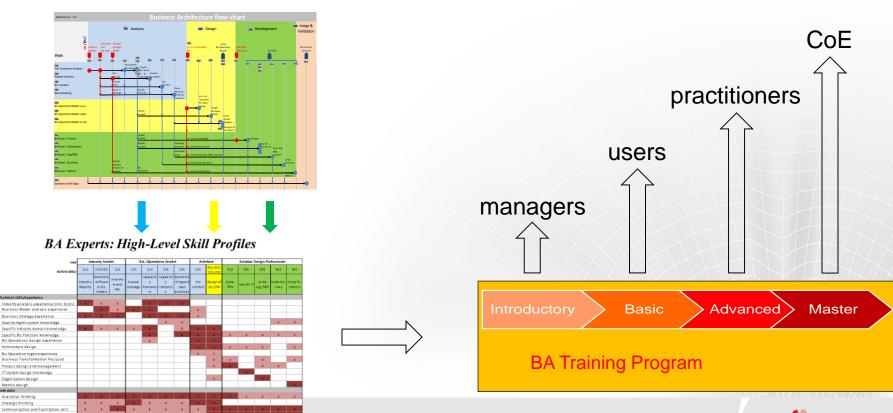
	Strategy	Transformation Planning		Program/ Project	Operation	
Client	Business	Business/ Transf.Board	Transf.Board	Program Office/ Project Office	Q&O	
Client's perspective	set direction	communicate needs	design the transformation plan	clarify requirements, understand best practices, mng cross-domain dependencies	monitor, RCA, correct	
Client's concern	reach Business KPI	reach strategy objectives		reach solution objectives	improve performances, manage risks	
BA deliverable	to-be Capabilities, to-be BOM	gap and change points, BOM, Capability roadmap		biz. context BOM, integrated requirements, BA Baseline, methodology	BA Baseline	
BA activity	research on best practices, problem solving, BOM & Capability design	domain and cross-domain requirements, capability roadmap, reference blueprint, governance		cross-domain integration, blueprint mapping of process/info/org	analysis and rootcause mapping, capability assessment, blueprint compliance	
BA Key Partners	strategy (corporate and FU), Business leadership	strategy/Q&O	EA	BPA/Solution	Q&O	



# ...projected most frequent BA use scenarios accordingly



# The "executable metamodel" had been used as a basis for defining the desired skill profiles and training modules

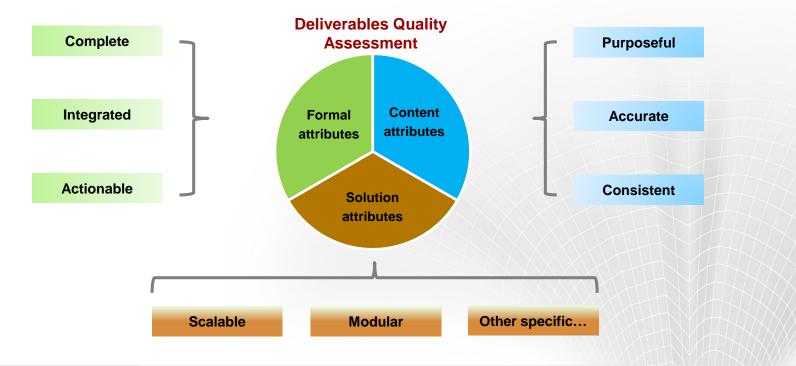


Organization de sign Analytical thinking

Problem solving

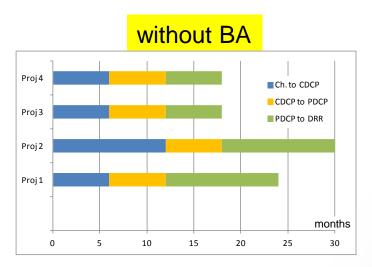


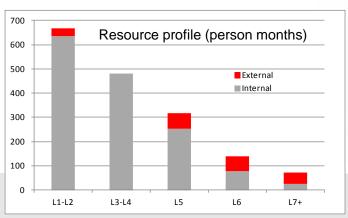
# Quality assessment/acceptance criteria had been defined leveraging metamodel standard and methodology framework

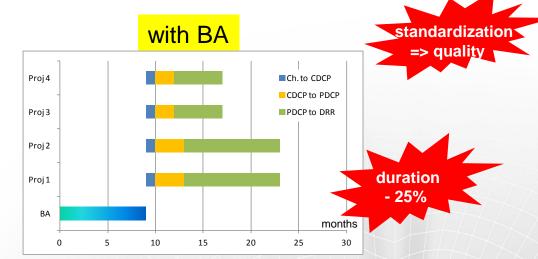


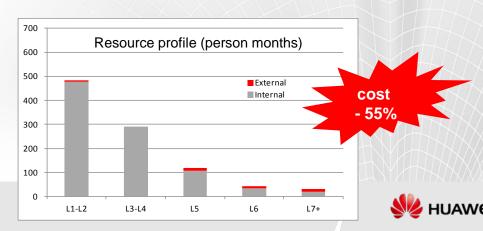


Metamodel+methodology enable time/cost saving and quality









# Common Metamodel to enable cooperation within BA ecosystem

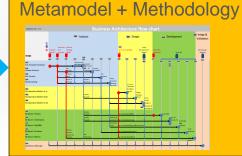
#### **Partners**



#### SLAs to users and practitioners @ Huawei

Support to transformation Programs or projects		Direct project responsib.	Resources & Deliver.	Regular Coach & Review	Training
SL4	Co-Leadership	✓	✓		✓
SL3	Deliverables & Application Support		✓	✓	✓
SL2	Guidance			✓	<b>√</b>
SL1	Training & best wishes				H/

#### BA CoE @ Huawei



#### Training and tools

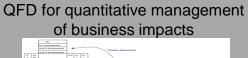
Introductory Basic Advanced Master



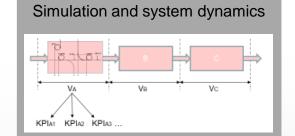
## What's next...



Best practices, Collaborative teams









BA Metamodel, **Certification Program** 

align Huawei to the Guild's Metamodel & Certification



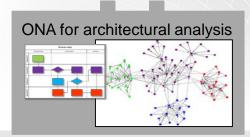
methodology extension through pilots and cooperation on BA scenarios, e.g.:

- BA and Sustainability <=> Guild's team
- BA and Quality (QMS design, auditing...)
- BA application in research
- Interlock with IA and AA

#### Research







DFx of architectural topologies, Dynamic rules based routing







## **Lessons learned**

- The introduction of "BA thinking" can be disruptive
  - › Build trust with pilot projects of "business problem solving"
  - > Then, adoption of a standard metamodel and methodology helps smooth the impact

#### BA Metamodel joined with standardized methodology enable/facilitate:

- > Establishment of a BA skill development program
- Deployment of standard quality criteria for BA deliverables
- > Introduction of BA practice within transformation governance
- > Partnerships and participation to the extended "BA ecosystem"

### All that helps the foundation of a BA CoE model, by:

- > Establishment of clear scenarios for BA developers and BA consumers
- > Establishment of clear SLA and engagement model
- > Establishment of a basis and opportunities for continuous improvement
- Investment on methodology will generally make BA more affordable by a young org.
- > Benefits in terms of time and cost saving against non-BA scenario should show



# Thank you

www.huawei.com

#### Copyright©2015 Huawei Technologies Co., Ltd. All Rights Reserved.

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.