



Robotic Assurance

Powered by XBRL

SPEAKER: **Paul Snijders**

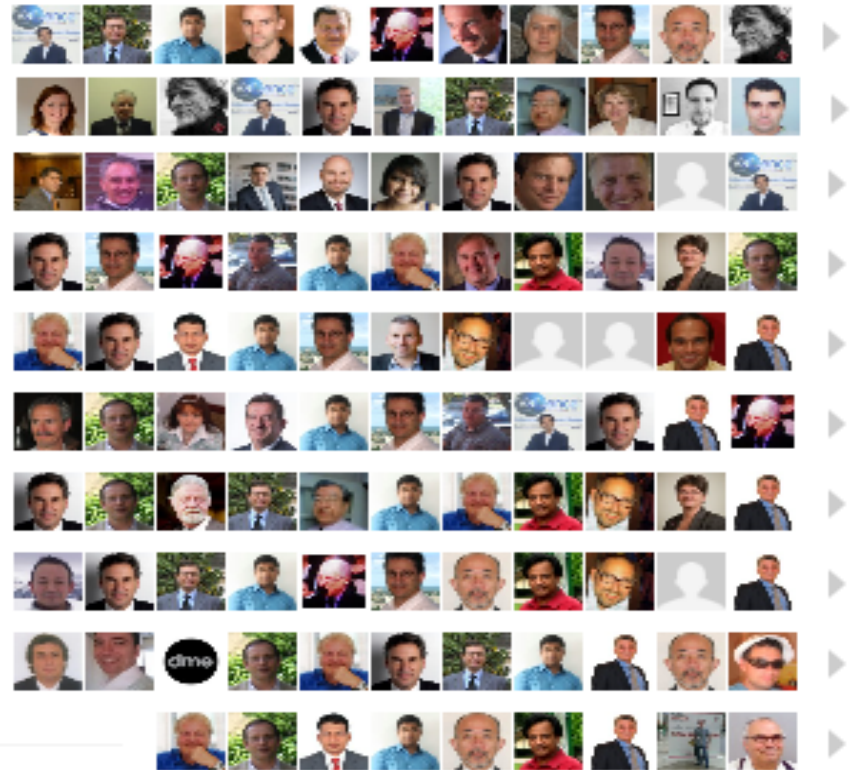
SINGAPORE
8-10 NOVEMBER
2016

Semansys Technologies
XBRL Europe
XBRL Netherlands

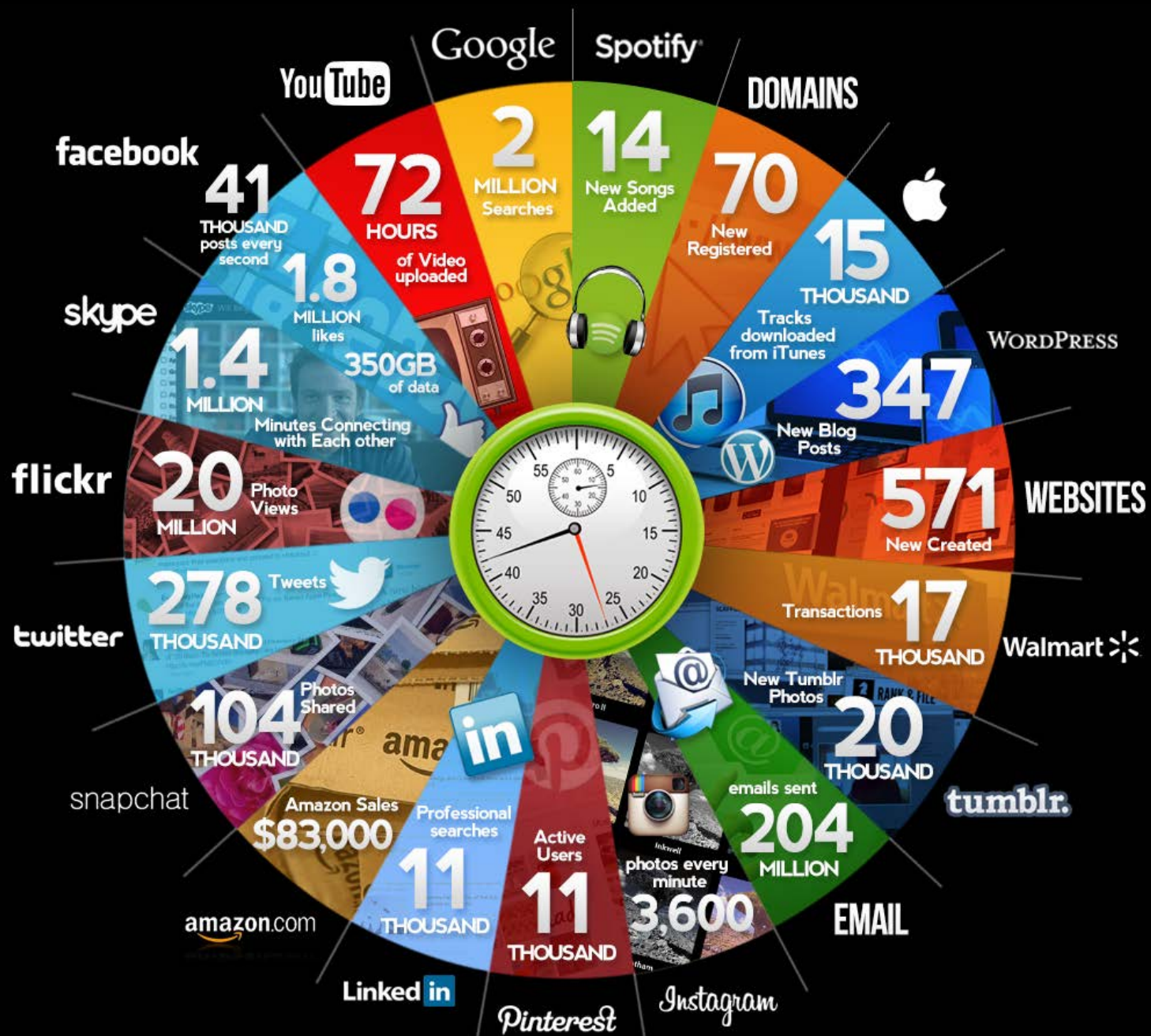


Title

48	XBRL	+
49	Financial Reporting	+
43	Business Intelligence	+
21	Strategy	+
20	Consolidation	+
16	Management	+
14	Finance	+
14	IFRS	+
11	Management Consulting	+
9	Analysis	+
3	Business Process	
3	Business Analysis	
3	MIS	
3	Data Warehousing	
3	Auditing	
2	Business Strategy	
2	Software Development	
2	Taxonomy	
2	Accounting	
2	Government	
2	Banking	
2	Financial Analysis	
1	XML	
1	Program Management	
1	Supply Chain	
	See 13+ >	



ONLINE IN 60 SECONDS



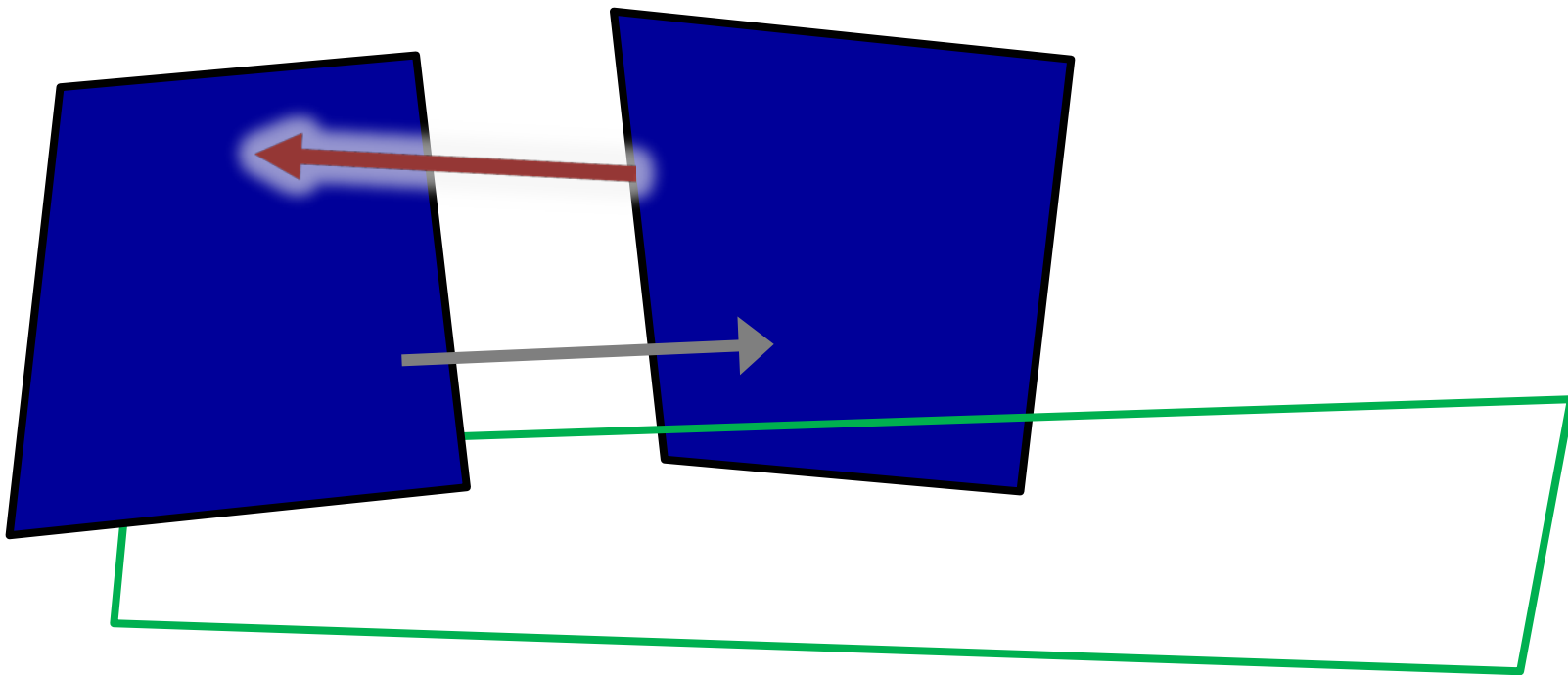
Explosion re: Internet of Things



It was (pre-internet)

Business

Customer

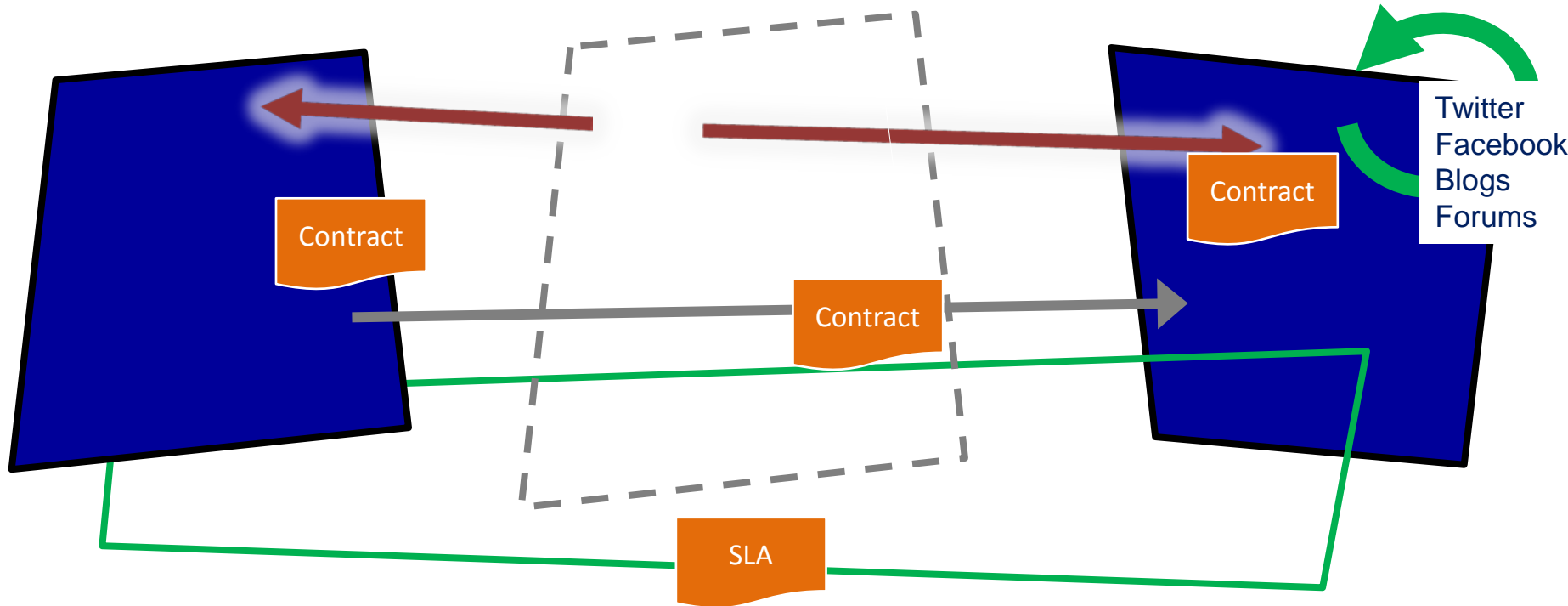


It is

Business

Web Business

Customer



It is

Business

Web Business

Customer

The organisation of the future
... is a box of contracts

The Third Wave
Alvin Toffler 1980

CLOUD

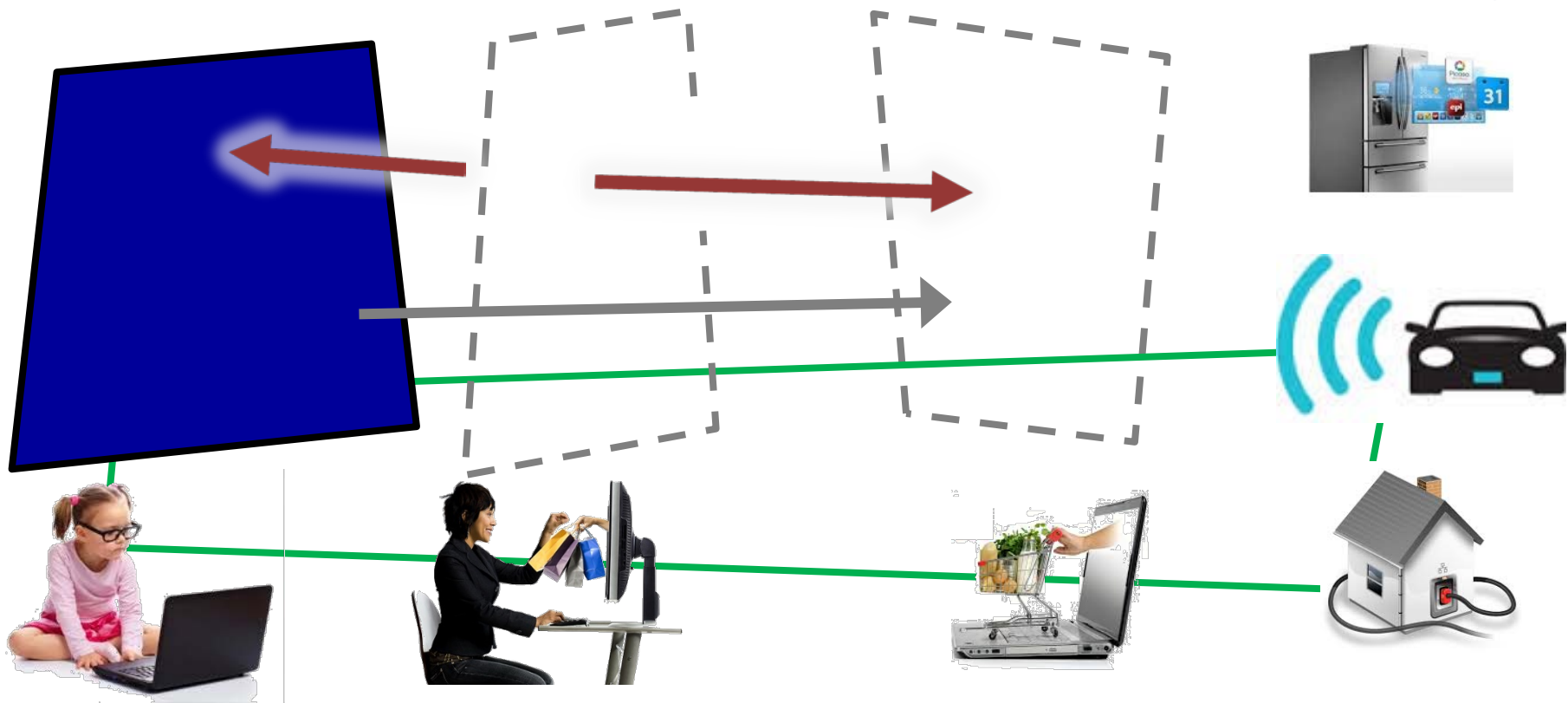
How it will be: our 'things' will do the business

Business

Web Business

Customer

Internet
of things



Will traditional accounting survive?



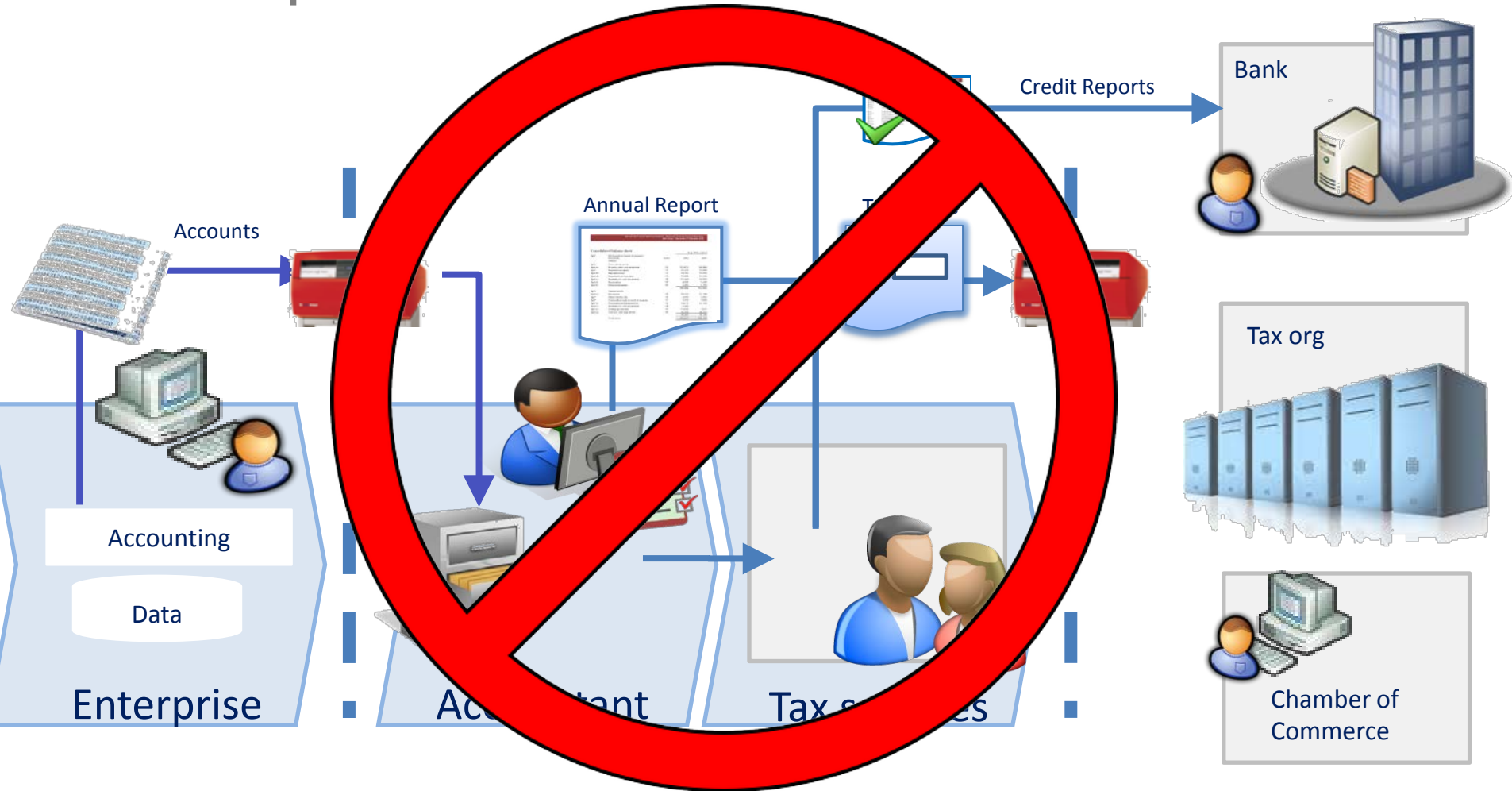
**Chartered
Accountants**



Semansys®

▶▶ XBRL2015
HOSTED BY XBRL DENMARK

Current process will cease to exist



Important concepts expected to spread



Continuous Monitoring



Continuous Internal Auditing

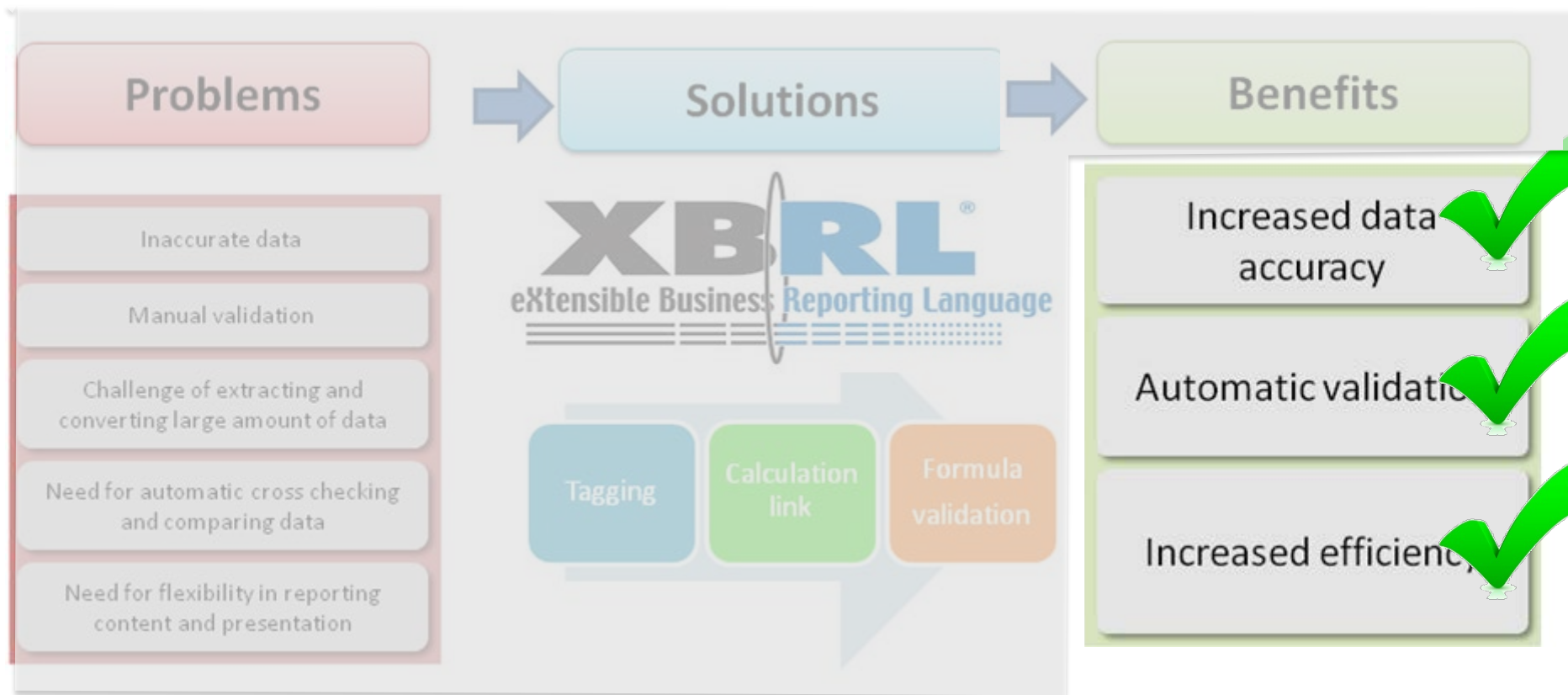


Continuous Data level Assurance

Prof. Hans Verkruijsse



XBRL comes to the rescue



XBRL: a powerfull family of standards

77 Specifications
2.316 Pages
475.285 Word count



More than 2.000
Conformance suite
Test sets

280.260

Versioning 51
Tables 46
Formulas 45
Enumerations 18
Generic Links 17
Registries 13
Dimensions 2
XBRL 2.1a 1

Spec

Word count

Pages

1242
1142
1065
607
603
558
265
198

195.025

26

23

18

12

1

Spec

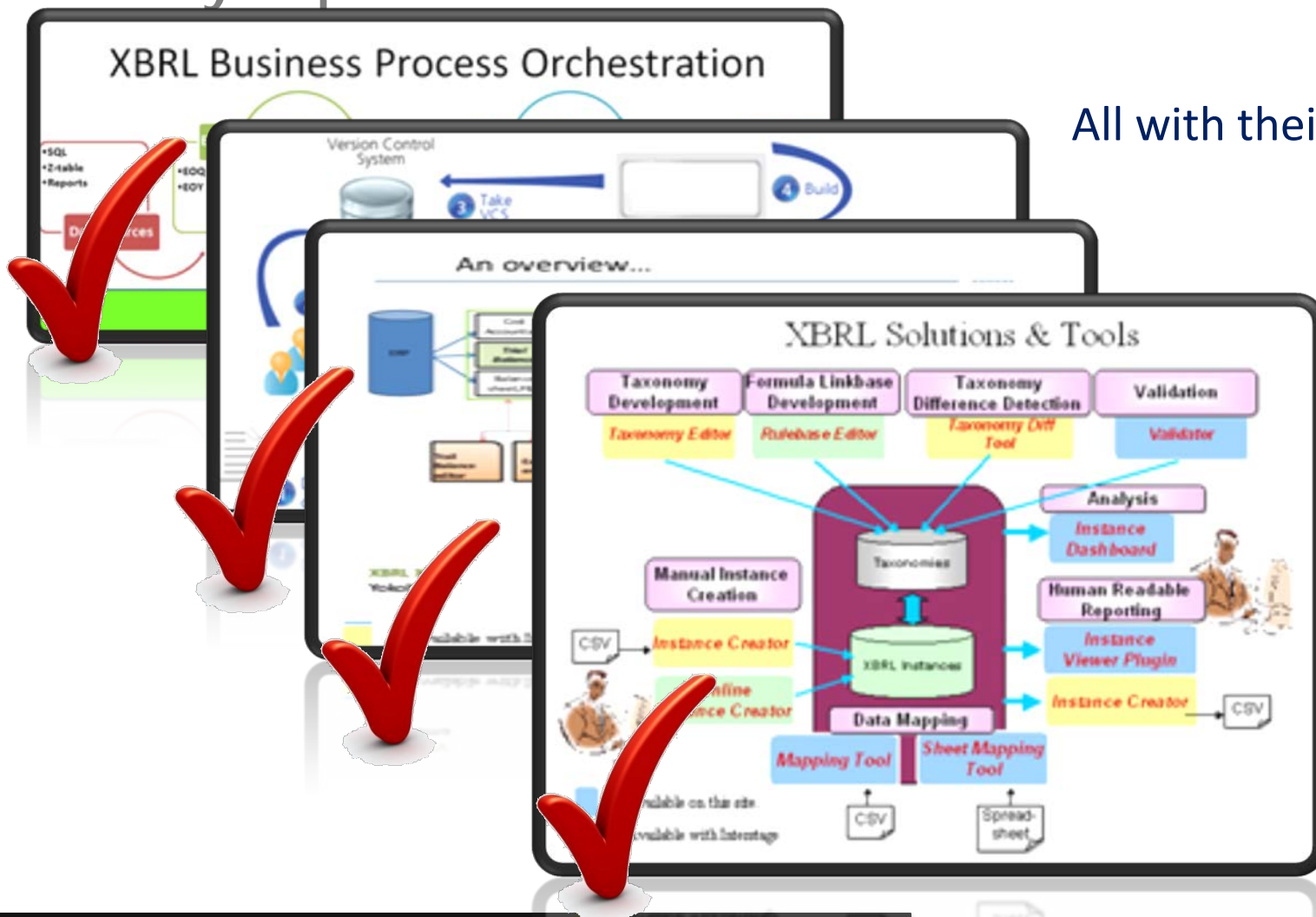
Word count

Pages

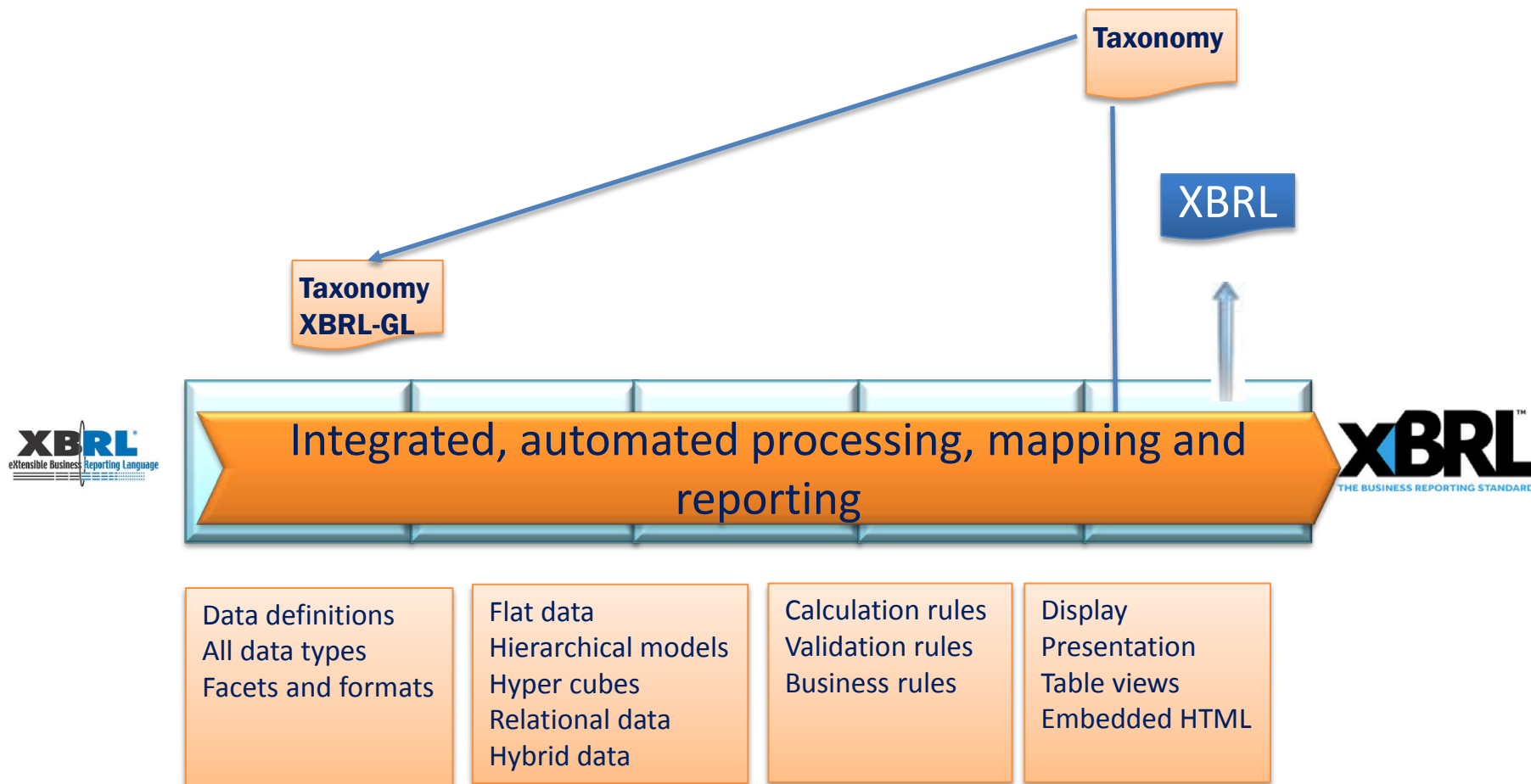
1074 XBRLGL
1031 Inline XBRL
472 Best Practice
139 Working drafts
45 Candidate release

Many implementations invents their own model

All with their own risks.



XBRL Based processes



How to audit Electronic statements

How to audit this?

- 1 statement can be over **100.000** lines of XML!

- Basel II/Solvency

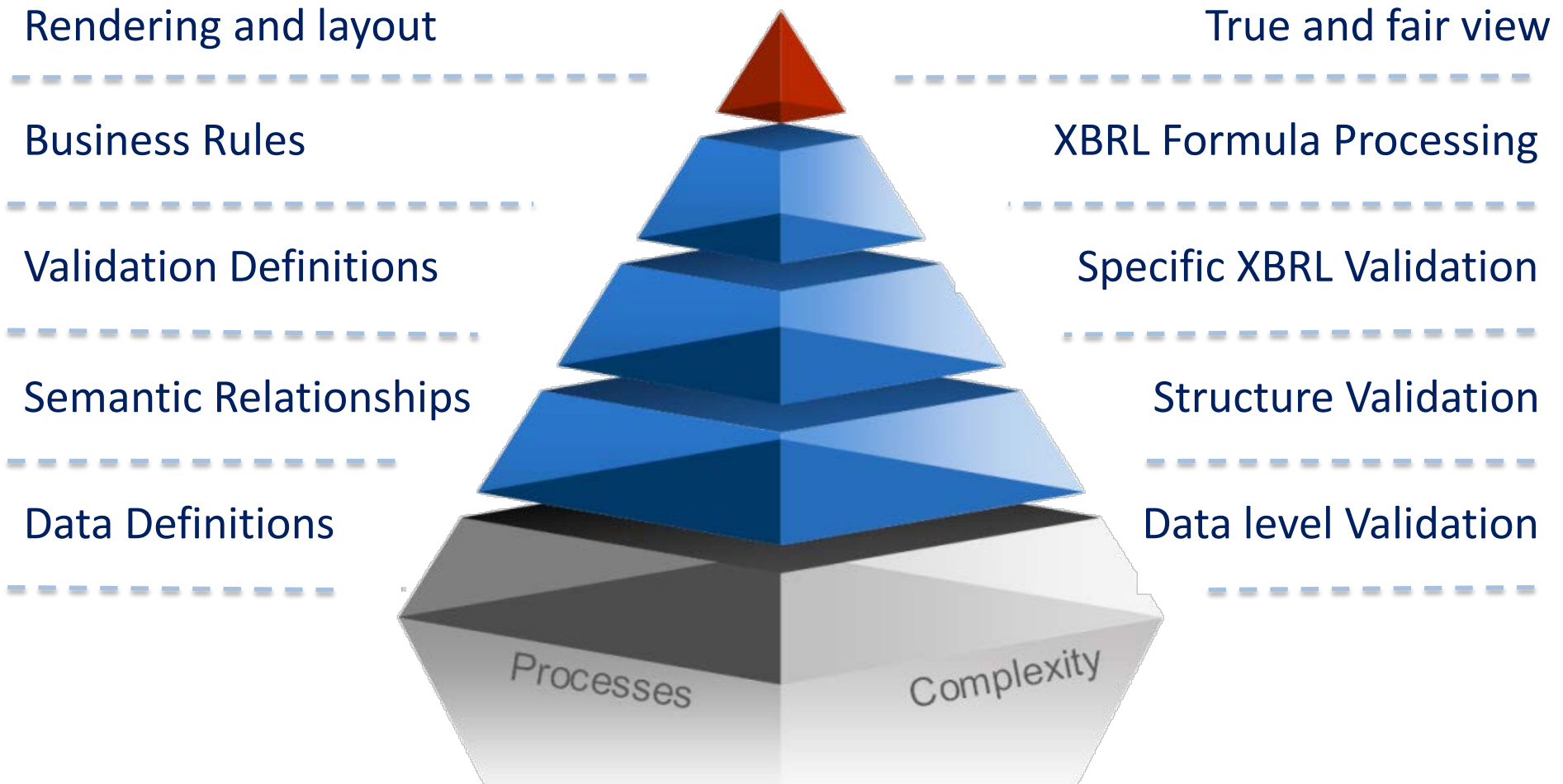
XBRL instances can be over **100.000** data cells
100Mb tot **1-3Gb**

(meer dan 300.000 contexts)

You automate !

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320 <kvk-t:EntityAddressPresentation>
321 <nl-cd:POBoxNumber contextRef="FY12d">2312</nl-cd:POBoxNumber>
322 <nl-cd:PostalCodeNL contextRef="FY12d">2501CD</nl-cd:PostalCodeNL>
323 <nl-cd:PlaceOfResidenceNL contextRef="FY12d">Den Haag</nl-cd:PlaceOfResidenceNL>
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327 <nl-cd:EndDateForFinancialPeriod contextRef="FY12d">2012-12-31</nl-cd:EndDateForFinancialPeriod>
328 <rij-1:FinancialPeriodDifferentThanAnnualStatus contextRef="FY12d">false</rij-1:FinancialPeriodDifferentThanAnnualStatus>
329 <rij-1:DocumentRelatesToIndividualEntityOrGroup contextRef="FY12d">Enkelvoudig</rij-1:DocumentRelatesToIndividualEntityOrGroup>
330 <rij-1:DocumentPresentationCurrency contextRef="FY12d">EUR</rij-1:DocumentPresentationCurrency>
331 <nl-cd:DocumentCreationDate contextRef="FY12d">2012-01-22</nl-cd:DocumentCreationDate>
332 <bw2-1:DocumentAdoptionStatus contextRef="FY12d">true</bw2-1:DocumentAdoptionStatus>
333 <bw2-1:DocumentAdoptionDate contextRef="FY12d">2013-01-31</bw2-1:DocumentAdoptionDate>
334 <bw2-1:BalanceSheetBeforeAfterAppropriationResults contextRef="FY12d Commercial_Separate">Na</bw2-1:BalanceSheetBeforeAfterAppropriationResults>
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338 <bw2-1:AssetsNoncurrent contextRef="FY12i Commercial_Separate" unitRef="EUR" decimals="INF">1800000</bw2-1:AssetsNoncurrent>
339 <bw2-1:Inventories contextRef="FY12i Commercial_Separate" unitRef="EUR" decimals="INF">150000</bw2-1:Inventories>
340 <rij-1:ConstructionContractsAssets contextRef="FY12i Commercial_Separate" unitRef="EUR" decimals="INF">100000</rij-1:ConstructionContractsAssets>
341 <bw2-1:Receivables contextRef="FY12i Commercial_Separate" unitRef="EUR" decimals="INF">1050000</bw2-1:Receivables>
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367 <bw2-1:ShareCapital contextRef="FY11i Commercial_Separate" unitRef="EUR" decimals="INF">1800000</bw2-1:ShareCapital>
```

XBRL assurance stack



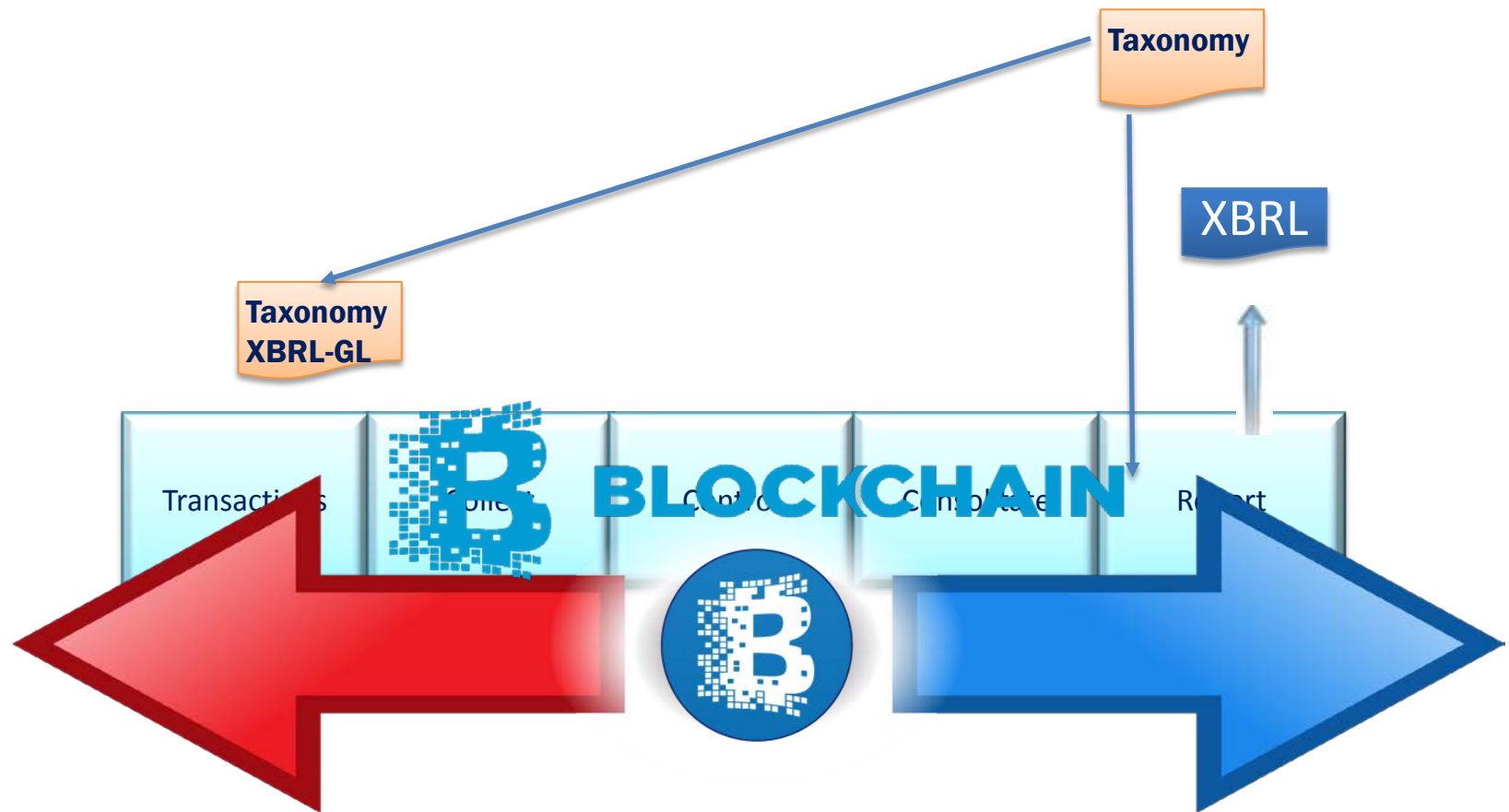
XBRL core technology for a bright future

XBRL contains all concepts, architecture and technology for automated data level Assurance.

- ┆ Data definitions
- ┆ Any data model
- ┆ Data level validation
- ┆ Business rule processing
- ┆ Rendering layouts
- ┆ Automated processes
- ┆ World wide adoption



XBRL Based processes and Blockchain

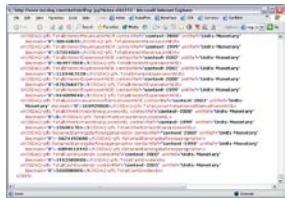


Communicating Vessels of Assurance

Data

EDP
Auditor

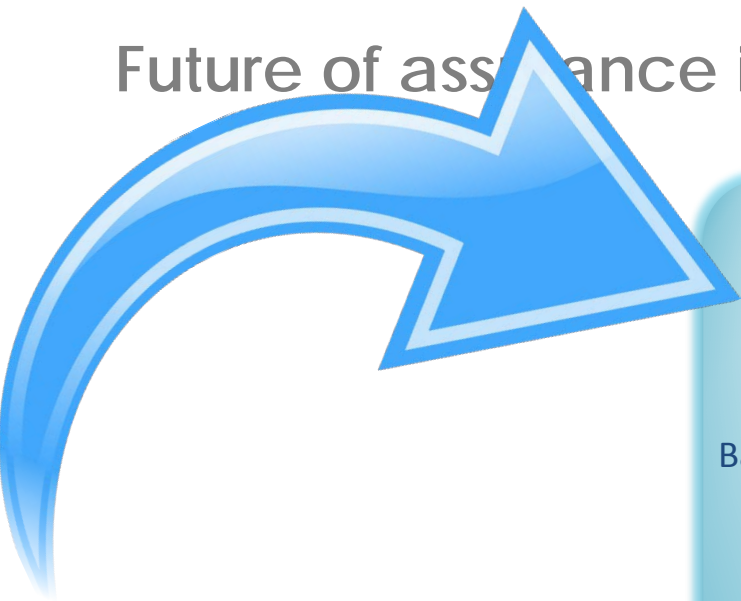
CPA



Data level
assurance

Document
Centric

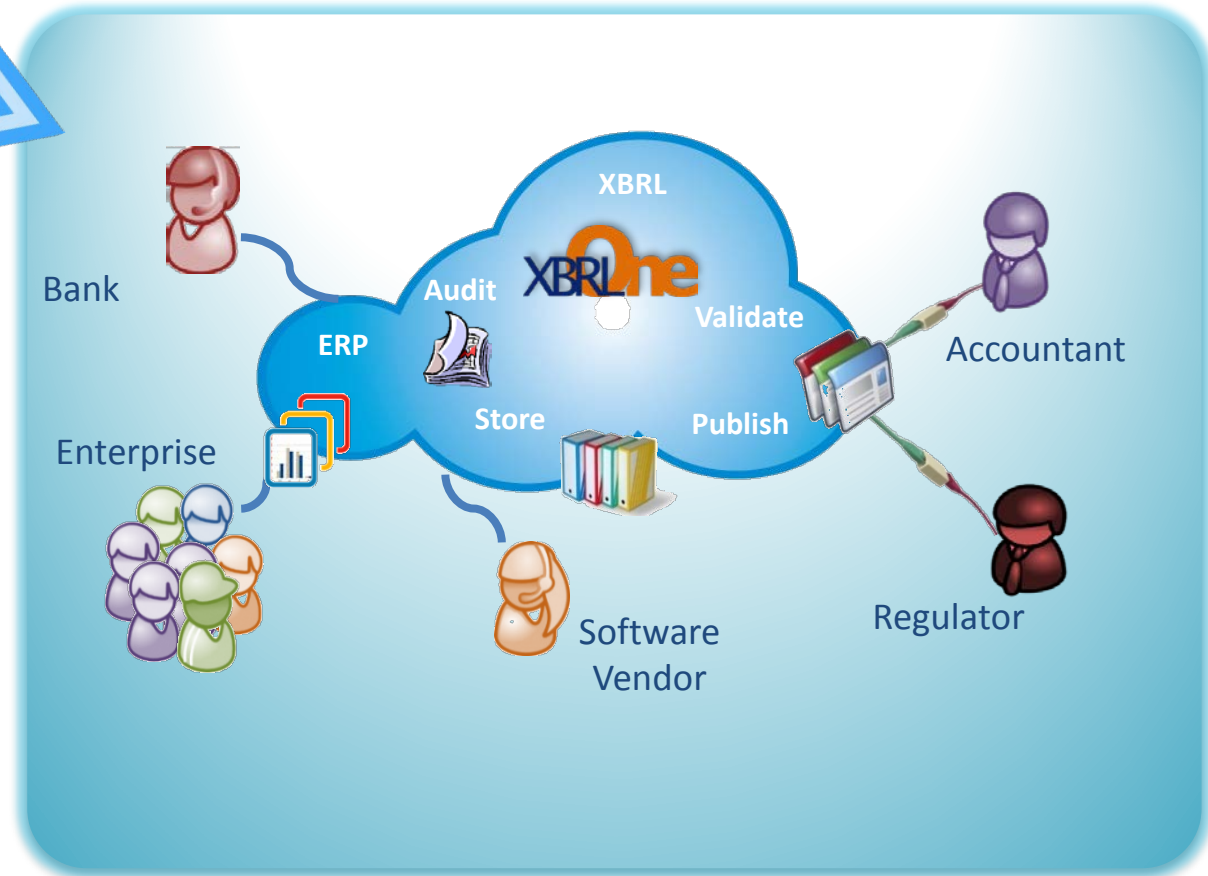
Future of assurance in the cloud



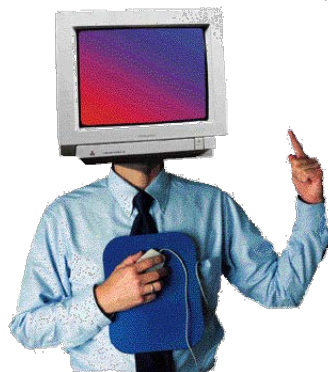
The Balance Sheet

Assets		Liabilities
Fixed Assets	✓	Current Liabilities
Current Assets		Debt
Financial Investments		Other Liabilities
Intangible Assets		Equity

Handwritten notes on the left margin: "Physical, marks"



Wait for the call center accountant



Semansys®

SINGAPORE 8-10 NOVEMBER 2016

Thank you



Paul Snijders.

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paul.snijders@semansys.com

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