



SINGAPORE

8-10 NOVEMBER

2016

Robotic Assurance

Powered by XBRL

SPEAKER: **Paul Snijders**

Semansys Technologies

XBRL Europe

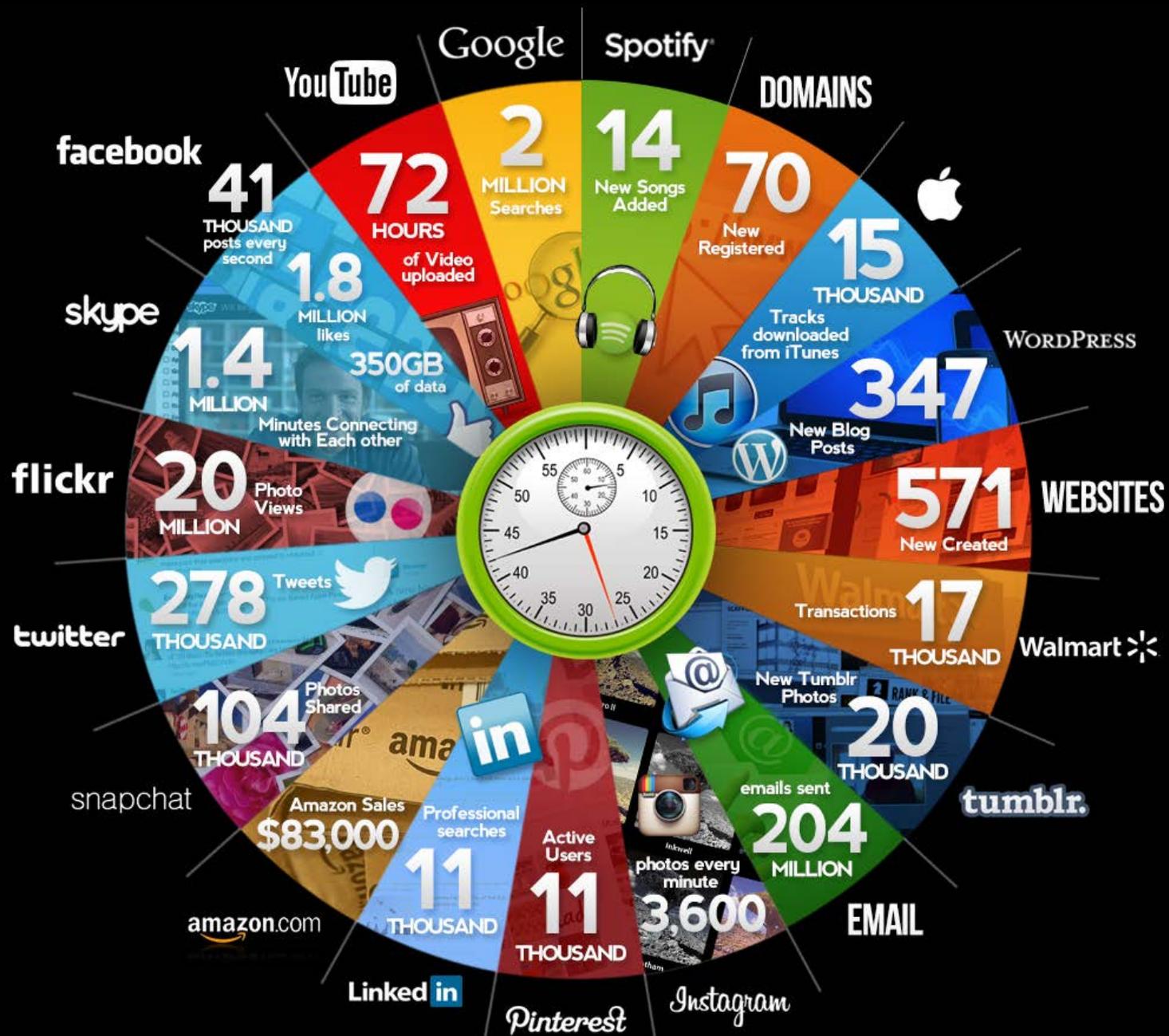
XBRL Netherlands



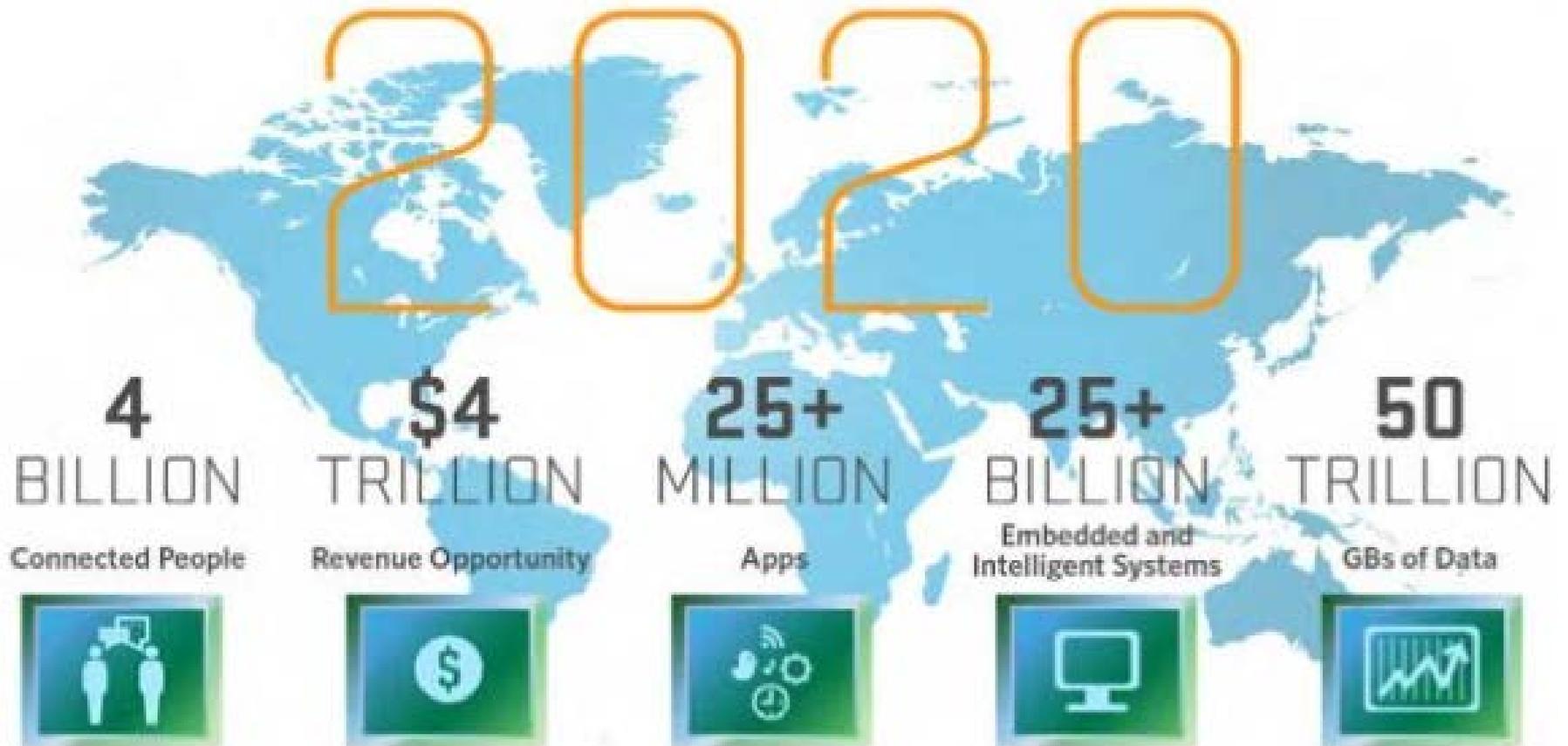
Title

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												

ONLINE IN 60 SECONDS



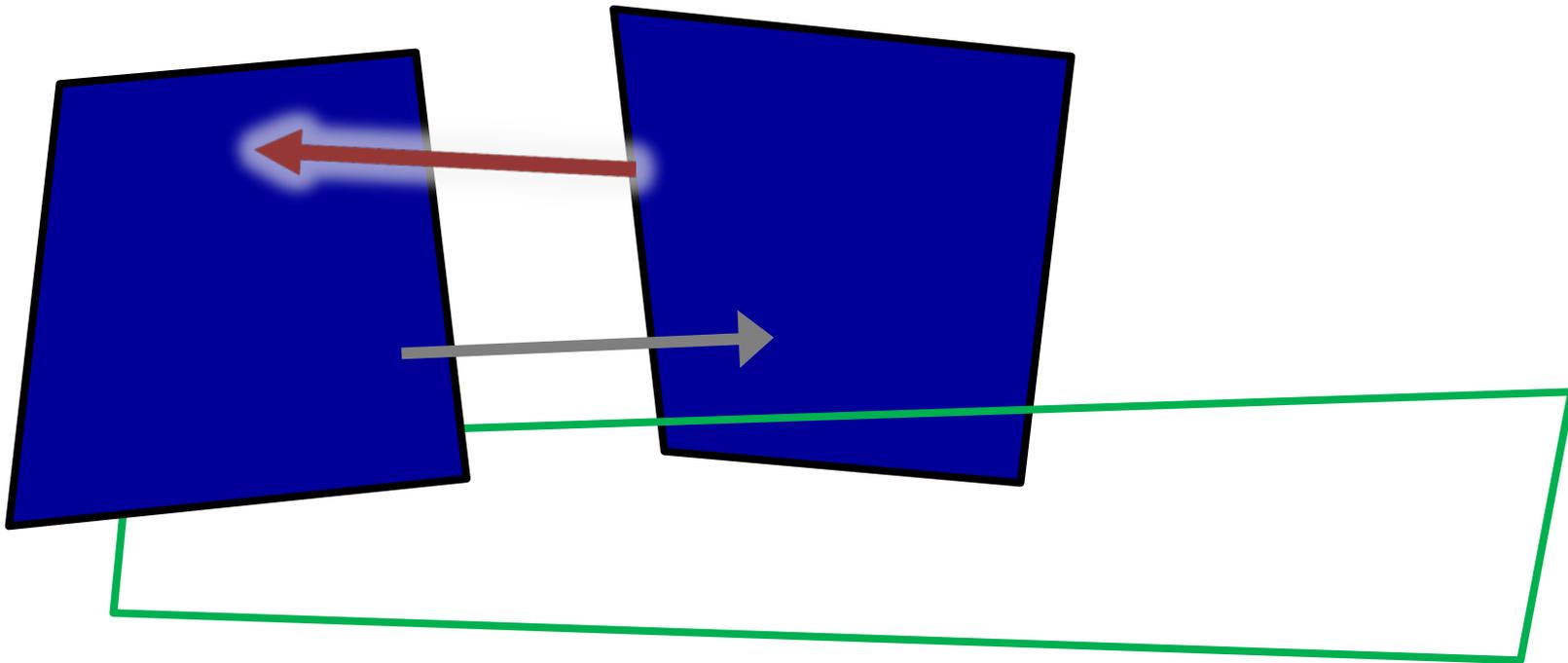
Explosion re: Internet of Things



It was (pre-internet)

Business

Customer

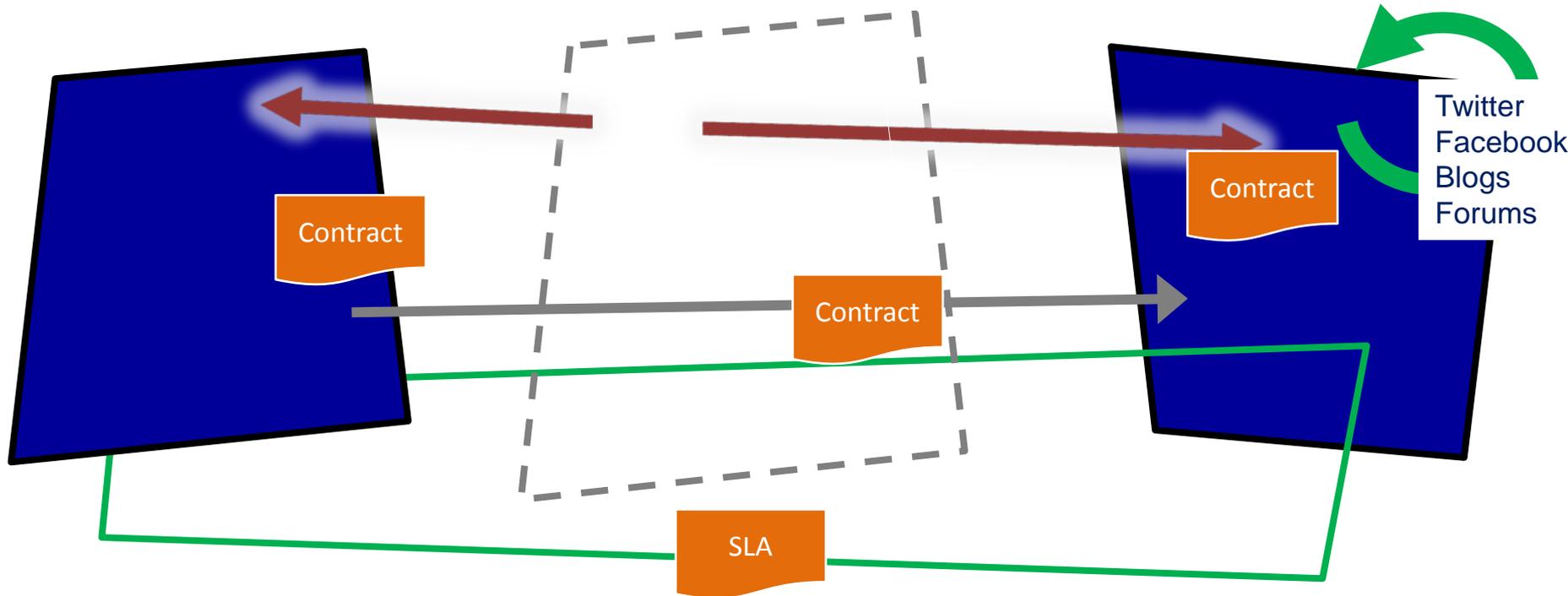


It is

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

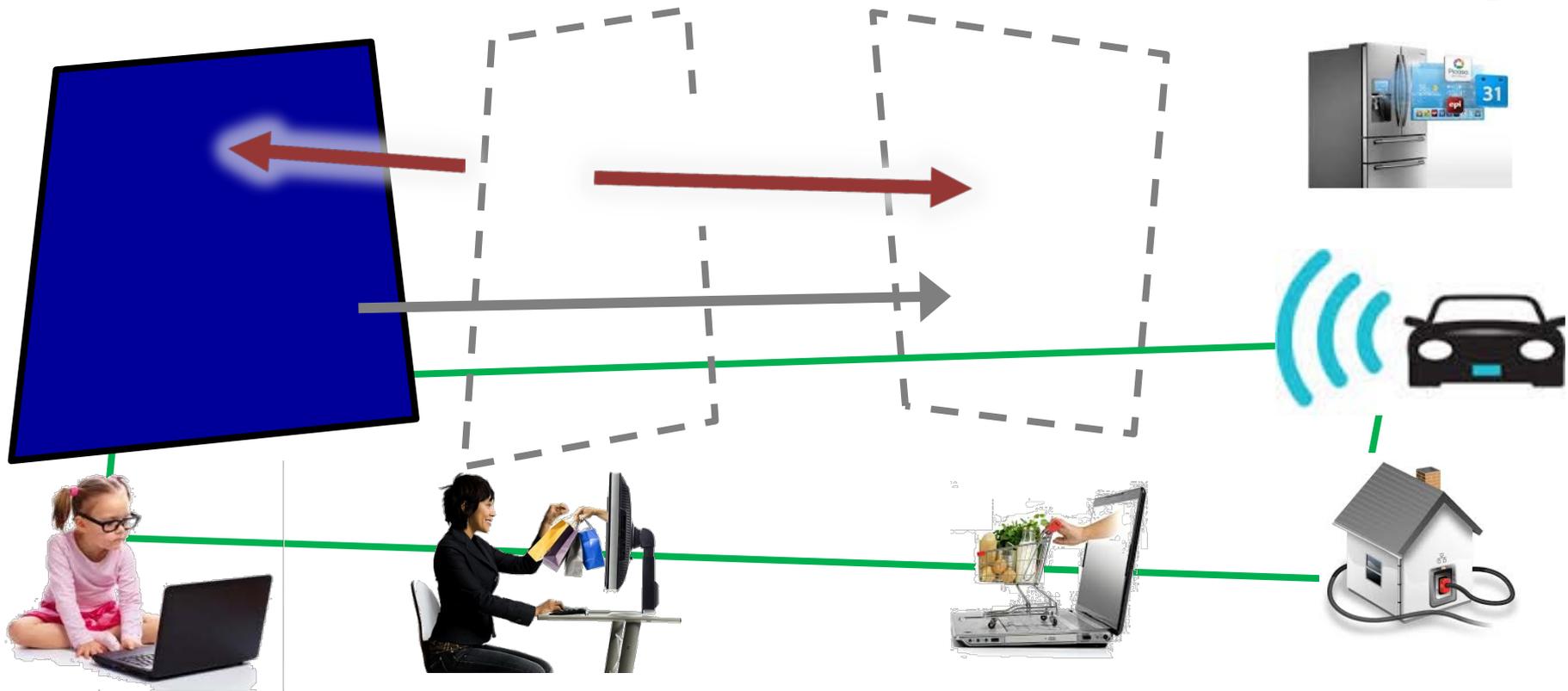
How it will be: our 'things' will do the business

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

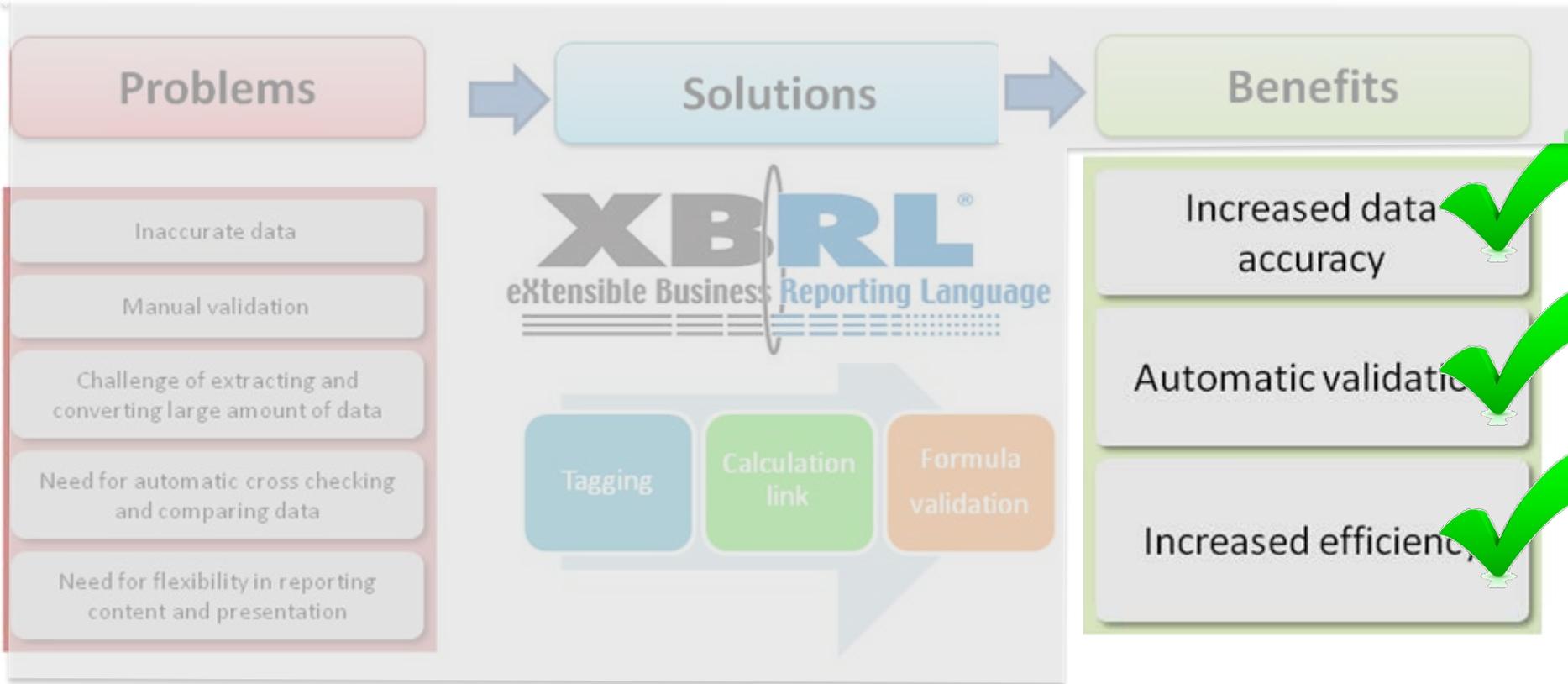


Continuous Data level Assurance

Prof. Hans Verkruijsse



XBRL comes to the rescue

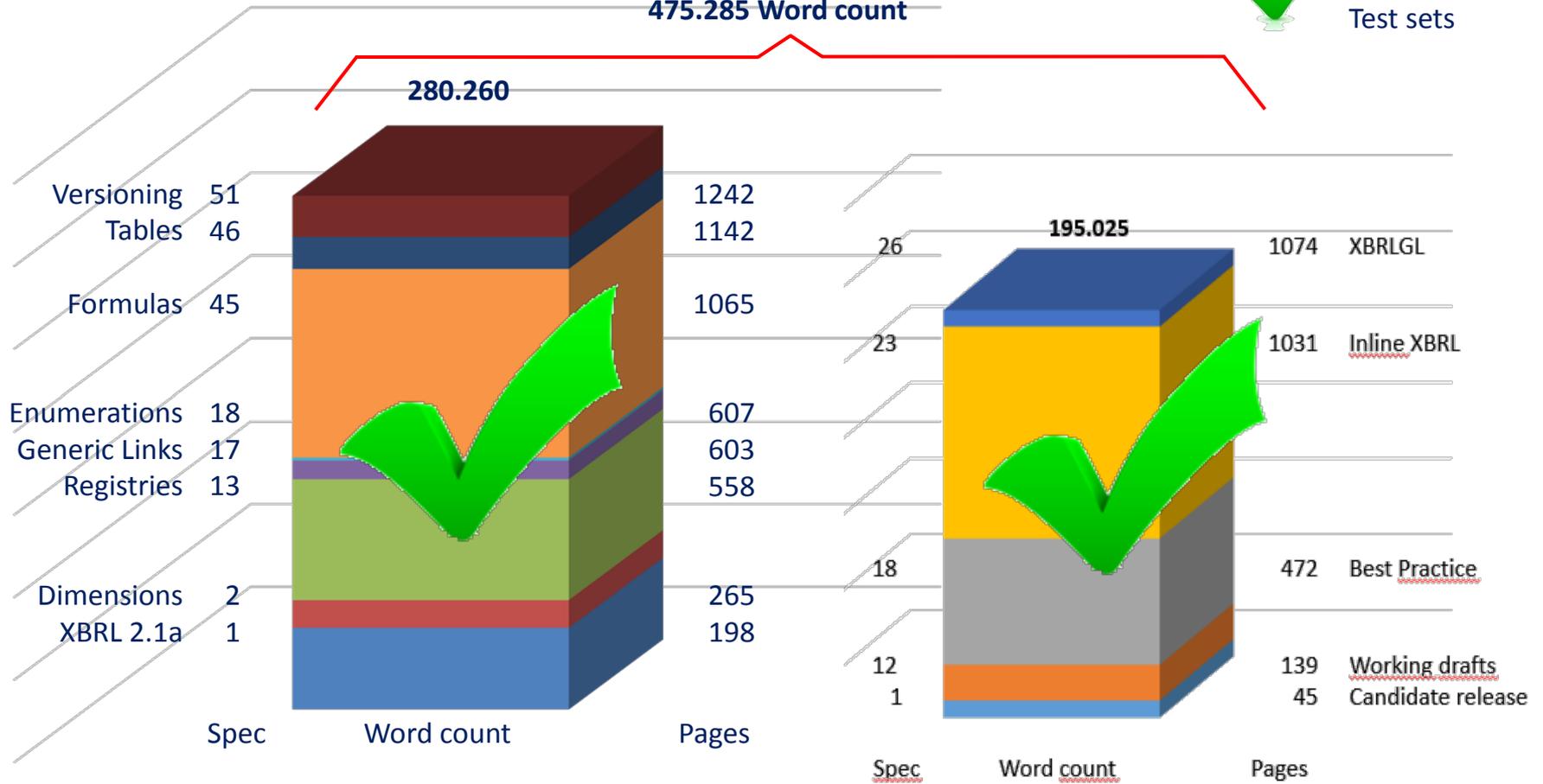


XBRL: a powerfull family of standards

77 Specifications
2.316 Pages
475.285 Word count



More than 2.000
Conformance suite
Test sets



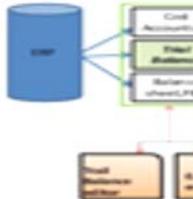
Many implementations invents their own model

All with their own risks.

XBRL Business Process Orchestration



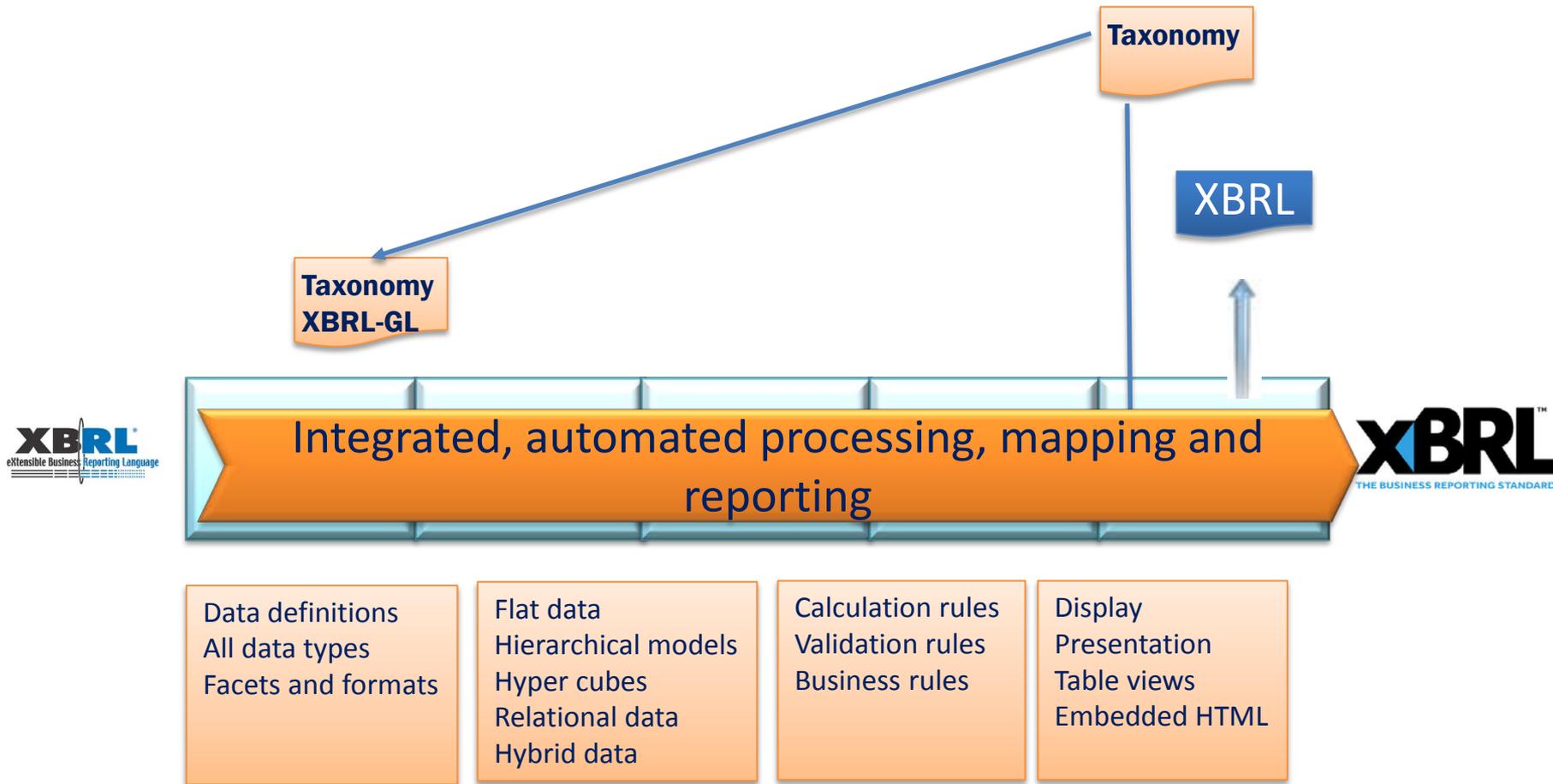
An overview...



XBRL Solutions & Tools



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

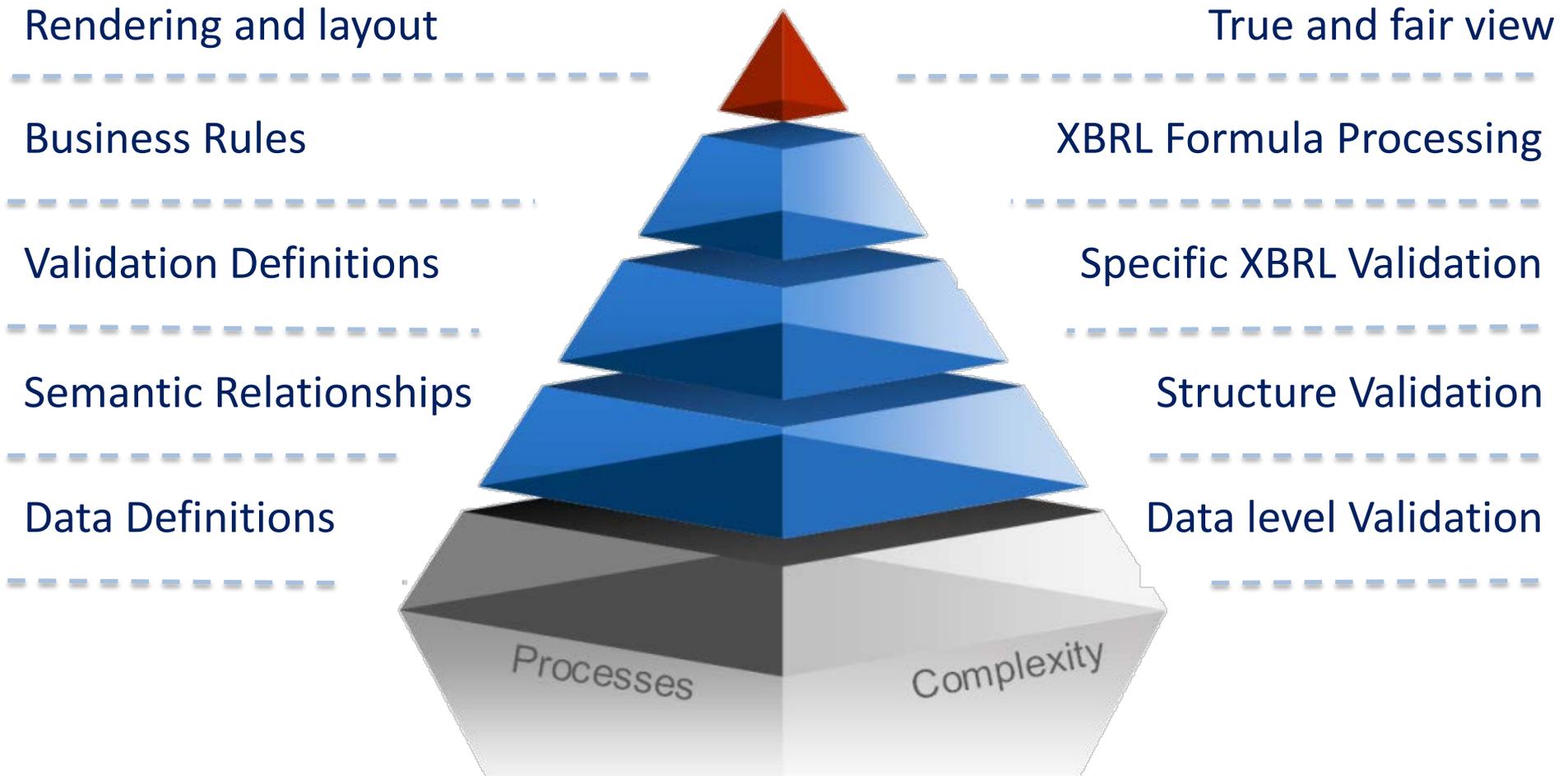
100Mb tot 1-3Gb

(meer dan 300.000 contexts)

You automate !

```
319 <nl-cd:NameBusiness contextRef="FY12d">Jensen Adviesbureau</nl-cd:NameBusiness>
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>
324 <nl-cd:CountryName contextRef="FY12d">Nederland</nl-cd:CountryName>
325 </kvk-t:EntityAddressPresentation>
326 <nl-cd:StartDateForFinancialPeriod contextRef="FY12d">2012-01-01</nl-cd:StartDateForFinancialPeriod>
327 <nl-cd:EndDateForFinancialPeriod contextRef="FY12d">2012-12-31</nl-cd:EndDateForFinancialPeriod>
328 <rxj-1:FinancialPeriodDifferentThanAnnualStatus contextRef="FY12d">>false</rxj-1:FinancialPeriodDifferentThanAnnualStatus>
329 <rxj-1:DocumentRelatesToIndividualEntityOrGroup contextRef="FY12d">Enkelvoudig</rxj-1:DocumentRelatesToIndividualEntityOrGroup>
330 <rxj-1:DocumentPresentationCurrency contextRef="FY12d">EUR</rxj-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>
335 <bw2-1:IntangibleAssets contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">200000</bw2-1:IntangibleAssets>
336 <bw2-1:PropertyPlantEquipment contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">1300000</bw2-1:PropertyPlantEquipment>
337 <bw2-1:FinancialAssets contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">300000</bw2-1:FinancialAssets>
338 <bw2-1:AssetsNoncurrent contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">1800000</bw2-1:AssetsNoncurrent>
339 <bw2-1:Inventories contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">150000</bw2-1:Inventories>
340 <rxj-1:ConstructionContractsAssets contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">100000</rxj-1:ConstructionContractsAssets>
341 <bw2-1:Receivables contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">1050000</bw2-1:Receivables>
342 <bw2-1:Securities contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">100000</bw2-1:Securities>
343 <bw2-1:CashAndCashEquivalents contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">200000</bw2-1:CashAndCashEquivalents>
344 <bw2-1:AssetsCurrent contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">1600000</bw2-1:AssetsCurrent>
345 <bw2-1:Assets contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">3400000</bw2-1:Assets>
346 <bw2-1:ShareCapital contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">180000</bw2-1:ShareCapital>
347 <bw2-1:SharePremium contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">332000</bw2-1:SharePremium>
348 <bw2-1:RevaluationReserve contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">200000</bw2-1:RevaluationReserve>
349 <bw2-1:LegalStatutoryReserves contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">190000</bw2-1:LegalStatutoryReserves>
350 <bw2-1:ReservesOther contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">1360000</bw2-1:ReservesOther>
351 <bw2-1:Equity contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">2100000</bw2-1:Equity>
352 <bw2-1:Provisions contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">250000</bw2-1:Provisions>
353 <bw2-1:LiabilitiesNoncurrent contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">750000</bw2-1:LiabilitiesNoncurrent>
354 <bw2-1:LiabilitiesCurrent contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">300000</bw2-1:LiabilitiesCurrent>
355 <bw2-1:EquityAndLiabilities contextRef="FY121 Commercial_Separate" unitRef="EUR" decimals="INF">3400000</bw2-1:EquityAndLiabilities>
356 <bw2-1:IntangibleAssets contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">250000</bw2-1:IntangibleAssets>
357 <bw2-1:PropertyPlantEquipment contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">1100000</bw2-1:PropertyPlantEquipment>
358 <bw2-1:FinancialAssets contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">350000</bw2-1:FinancialAssets>
359 <bw2-1:AssetsNoncurrent contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">1700000</bw2-1:AssetsNoncurrent>
360 <bw2-1:Inventories contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">200000</bw2-1:Inventories>
361 <rxj-1:ConstructionContractsAssets contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">150000</rxj-1:ConstructionContractsAssets>
362 <bw2-1:Receivables contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">1100000</bw2-1:Receivables>
363 <bw2-1:Securities contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">50000</bw2-1:Securities>
364 <bw2-1:CashAndCashEquivalents contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">300000</bw2-1:CashAndCashEquivalents>
365 <bw2-1:AssetsCurrent contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">1800000</bw2-1:AssetsCurrent>
366 <bw2-1:Assets contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">3500000</bw2-1:Assets>
367 <bw2-1:ShareCapital contextRef="FY111 Commercial_Separate" unitRef="EUR" decimals="INF">1500000</bw2-1:ShareCapital>
```

XBRL assurance stack



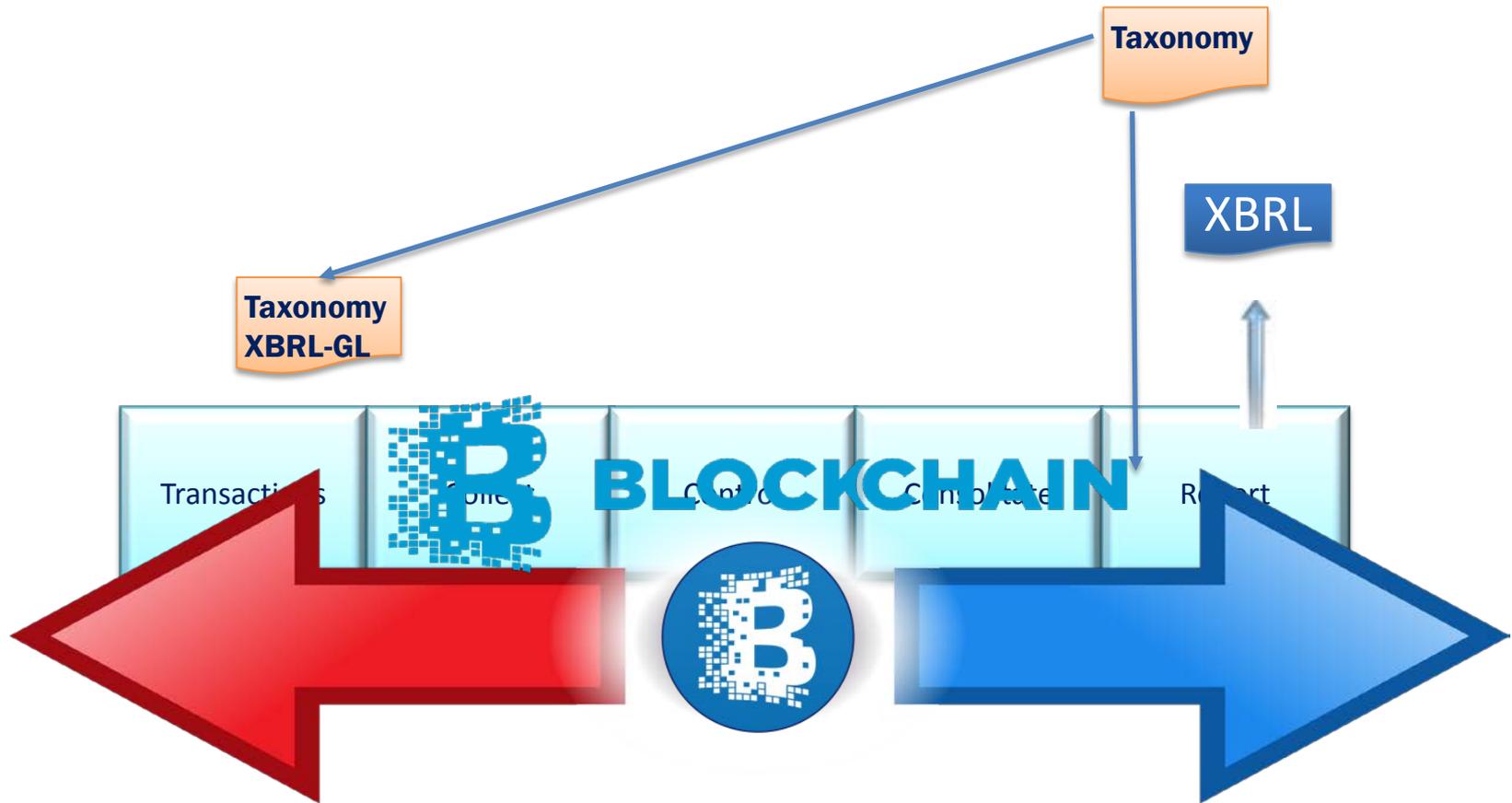
XBRL core technology for a bright future

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

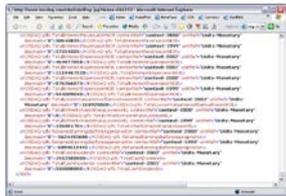
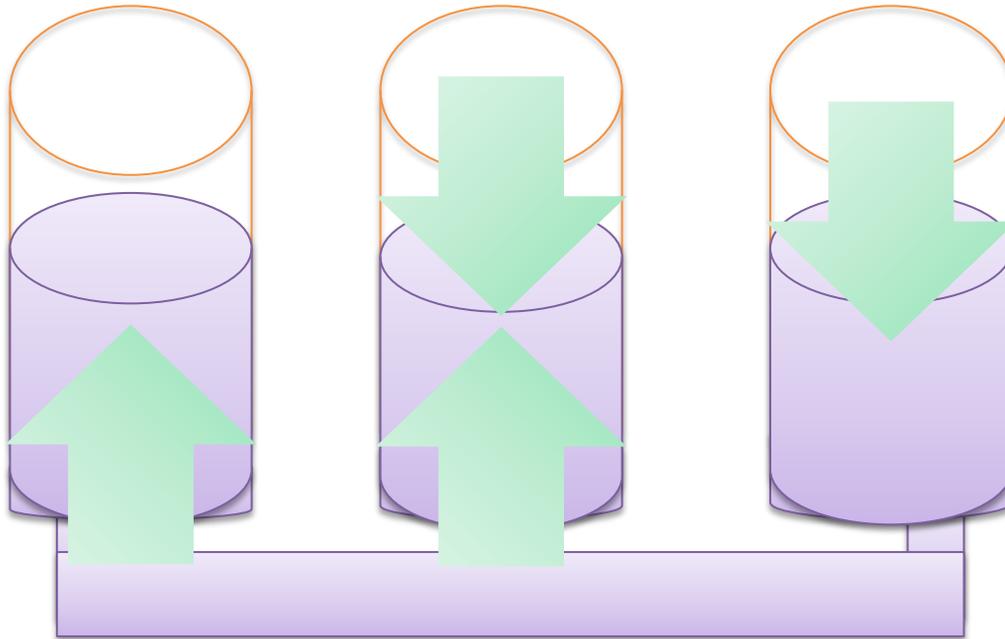


Communicating Vessels of Assurance

Data

EDP
Auditor

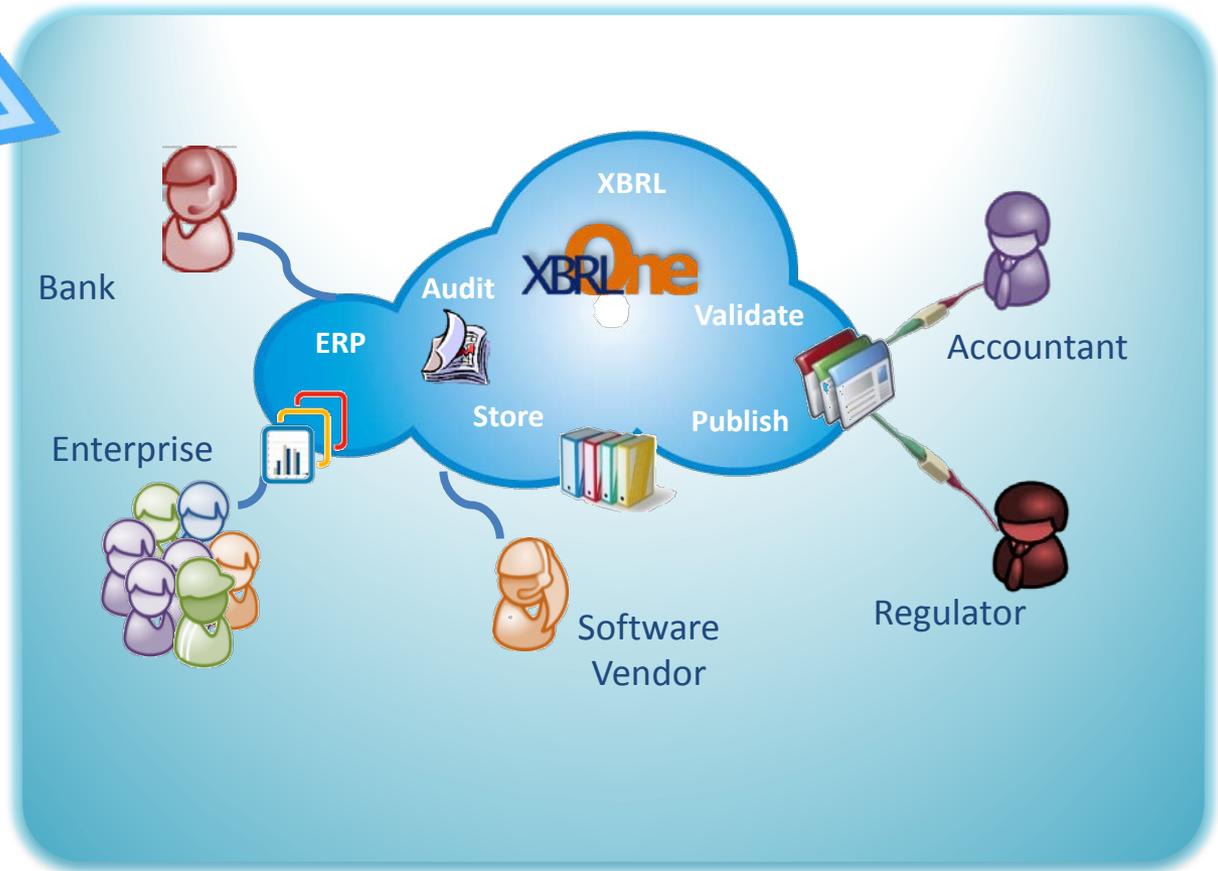
CPA



Data level
assurance

Document
Centric

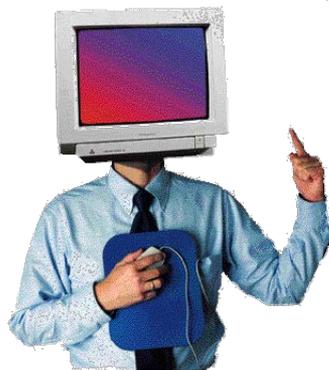
Future of assurance in the cloud



The Balance Sheet

Assets		Liabilities	
Fixed Assets	Current Liabilities	Short-term liabilities of the firm	
Current Assets	Debt	Debt obligations of firm	
Financial Investments	Other Liabilities	Other long-term obligations	
Intangible Assets	Equity	Equity investment in firm	

Wait for the call center accountant



Thank you



Paul Snijders.

www.semansys.com

paul.snijders@semansys.com

SINGAPORE 8-10 NOVEMBER 2016

