



XBRL 23 International Conference

Enhancing Business Performance

**October 2011
Montreal, Canada**

Academic Track

Integrating XBRL into the Accounting Curriculum

Ernest Capozzoli and David Gundersen

Thursday, October 27 2011

Integrating XBRL into the Accounting Curriculum

- ▶ This presentation will discuss the implications of XBRL adoption and accounting curriculums.
- ▶ Comparison of Rivet Crossfire and Rivet Dragon Tag XBRL assignments will be shared
- ▶ Suggestions for next steps

Integrating XBRL into the Accounting Curriculum

- ▶ As XBRL becomes more wide spread accounting curriculums must integrate XBRL content
- ▶ Content should be comprehensive and touch many courses.
- ▶ Material such as assignments and tool use must also be considered
- ▶ Multiple taxonomy usage must be a requirement

Integrating XBRL into the Accounting Curriculum

- ▶ Course areas that will be impacted:
 - Accounting Information Systems
 - Financial reporting
 - Basic financial statements
 - Disclosures
 - International
 - Auditing

Integrating XBRL into the Accounting Curriculum

- ▶ To address course content assignments have been developed and delivered:
 - Basic financial statements – using the USGAAP taxonomy in Accounting Information Systems
 - Advanced financial reporting – using the USGAAP taxonomy for selected detail tagging of disclosures.
 - International financial statements – using the USGAAP and IFRS taxonomy in an International class
 - Auditing– still under development

Basic Financial Reporting – Dragon Tag

Table 1 Significant Main Effects: Multivariate and Univariate Analyses for Assignments #1, #2, and #3				
		Group Means		
<i>Class Assignment</i>	<i>F</i>	<i>#1 Bal Sheet</i>	<i>#2 Inc Stmt</i>	<i>#3 Cash Flow</i>
Multivariate: F	1.853			
Univariate:				
Score	2.195	46.12	47.00	48.00
Time	.689	2.57	3.12	2.53
Taxonomy Difficulty	2.588	3.85	5.35	4.58
Assignment Difficulty	.176	4.92	5.15	4.81
* $p \leq .05$; ** $p \leq .01$; *** $p \leq .001$;				

Basic Financial Reporting – Crossfire Comparison (In hours)

Application	Balance Sheet	Income Statement	Cash Flows	N
Dragon Tag	2.57	3.12	2.53	400
Crossfire	3.00	4.26	2.86	70

Task Times are similar



Integrating XBRL into the Accounting Curriculum

Advanced Financial Reporting

Table 2			
Advanced Financial reporting			
N=29	Hours	Assignment Difficulty	Taxonomy Difficulty
Accounting Policies	2.63	5.47	6.14
Debt	4.03	6.75	6.71
Accrual and Taxes	2.95	5.76	5.76
Pension	6.61	7.75	7.88

Detail Tagging – Crossfire Comparison (In hours)

Application	Accounting Policies	Accruals and Taxes	Pensions	N
Dragon Tag	2.63	2.95	6.61	29
Crossfire	2.75	2.80	6.75	15

Task Times are similar



Integrating XBRL into the Accounting Curriculum

International Financial Reporting

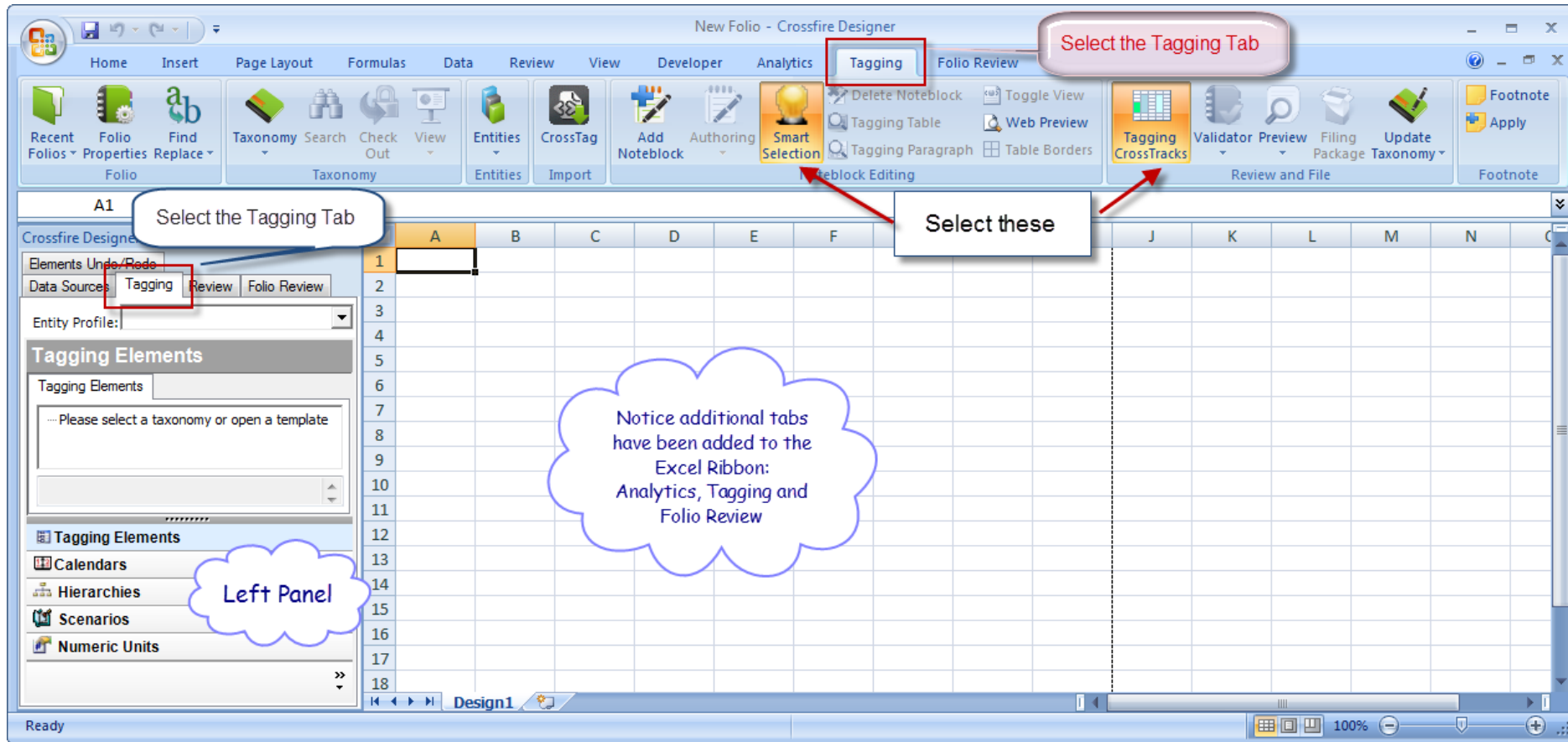
Table 3			
International Financial reporting			
N=20	Hours	Assignment Difficulty	Taxonomy Difficulty
Coke-USGAAP	5.17	5.50	6.42
Fiat IFRS	6.68	7.73	8.27
Coke-IFRS	4.52	6.30	6.90

Basic Financial Reporting IFRS – Crossfire Comparison (In hours)

Application	Coke USGAAP	FIAT IFRS	COKE IFRS	N
Dragon Tag	5.17	6.68	4.52	20
Crossfire	5.30	9.10	6.23	13

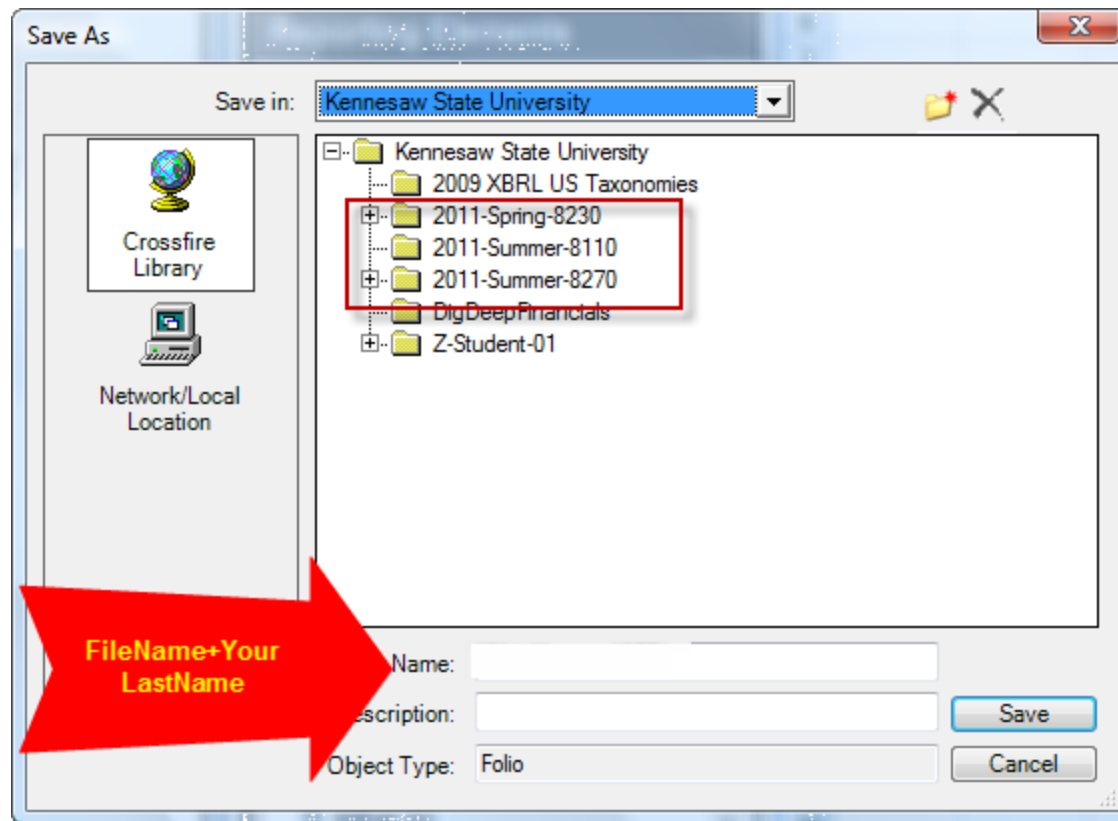
Task Times are not similar – due to Crossfire not storing the IFRS taxonomy on the server

Crossfire



- ▶ Server based but does an add-in to XL

Crossfire– Folder setup



- ▶ Folders used for each class this can be tedious
- ▶ 2010 classes were deleted by Rivet

Crossfire Tagging

The screenshot displays the Crossfire Designer application window. The title bar reads "Server Folio: SSIMTechBalanceSheet2009-Student-02 - Crossfire Designer". The ribbon includes tabs for Analytics, Tagging, Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, and Add-Ins. The Tagging tab is active, showing options like Taxonomy, Search, Check Out, View, Entities, CrossTag, Add Noteblock, Table, Paragraph, and Noteblock Editing. A red arrow points from the Tagging tab to the Tagging CrossTracks button.

The main workspace shows a spreadsheet for "SSIM Tech Corporation Statement of Financial Position". The data is organized by date: 12/31/2009 and 12/31/2008. The "Assets" section is highlighted, and the "Cash" row is selected. A red box highlights the "Cash" row in the spreadsheet.

The "Crossfire Designer" panel on the left shows the "Tagging Elements" list. The "Cash" element is selected, and a red arrow points from it to the "Cash" row in the spreadsheet. A red box highlights the "Cash" element in the list.

A red text box with a white background provides instructions:

Select Cell A6 "Cash" in the spreadsheet panel
Click on Cash in the Tagging Elements Panel and
Hold the left mouse button down
Drag "Cash" to row 6 and release left mouse button
Additional options will be displayed see Figure 5-13

	12/31/2009	12/31/2008
Assets		
Cash	\$ 12,131	\$ 10,656
Cash Equivalents, at Carrying Value	456	456
Total Cash and Cash Equivalents	12,587	11,112
Accounts Receivable, Gross, Current	2,568	2,600
Allowance for Doubtful Accounts Receivable, C	130	130
Assets, Current, Total	17,091	15,638
Non-Current Assets:		
Land	14,568	14,568
Buildings	11,256	11,256
Equipment	150,000	140,000
Accumulated Depreciation	1,200	1,000
Property, Plant and Equipment, Net, Total	174,624	164,824
Goodwill	1,213	1,213
Assets, Noncurrent, Total	175,837	166,037
Assets, Total	\$ 192,928	\$ 181,675

- ▶ Similar to Dragon Tag – depending on teaching approach this requires more effort

Integrating XBRL into the Accounting Curriculum

Summary

- ▶ This presentation displayed the results of integrating XBRL into three course areas:
 - ▶ Basic financial reporting
 - ▶ Advanced financial reporting
 - ▶ International
- ▶ Results indicate that students master both the US and IFRS taxonomies as part of normal class assignments.
- ▶ These assignments were completed using Rivet Software's Dragon Tag and Crossfire
- ▶ Task times are similar except for using the IFRS taxonomy

Integrating XBRL into the Accounting Curriculum

Next Steps

- ▶ Develop meaningful assignments- many cases have been developed and are available from Dr. Debreceeny and Dr Capozzoli or through the American Accounting Association
- ▶ Master an XBRL tool such as Rivet Crossfire or Fujitsu
- ▶ Start slowly until you master the tool and the material.
- ▶ Share your results.
- ▶ Use Learn XBRL.net to grade assignments

LearnXBRL Login

Mozilla Firefox


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http://learnxbrl.net/Main/login.aspx?ReturnUrl=%2fMain%2fDefault.aspx

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XBRL**



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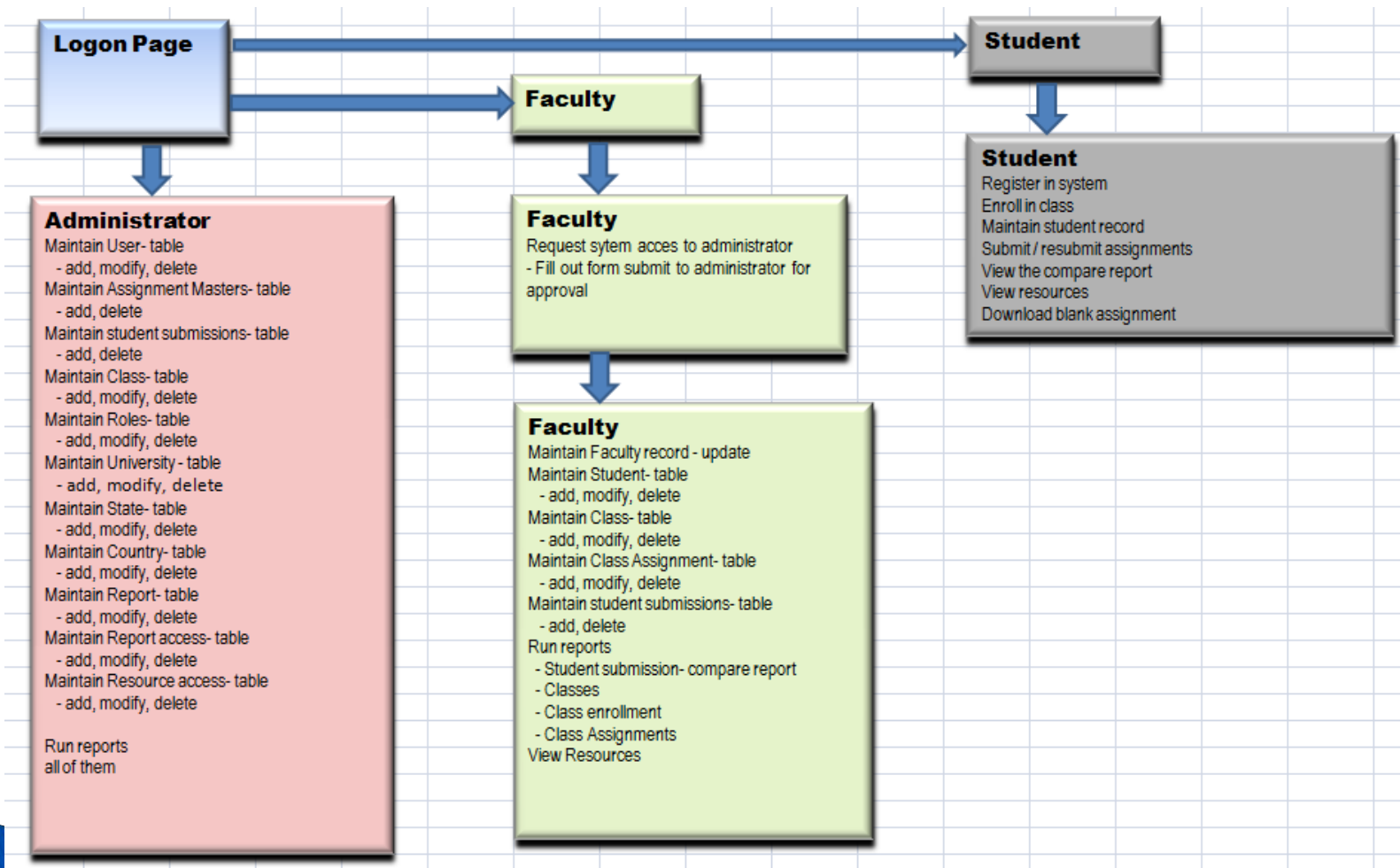
Log In

User Name (E-Mail):

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LearnXBRL – Flow



LXBRL –Compare

Learn
XBRL



Welcome
Ernest
Capozzoli!

Class: 2011-Acct 8230- Spring/summer

Assignment: DD-IS-2009

Student: Anthony Kirkover

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☒ Show Entire Assignment ☐ Concise View ☐ Order By Value

XBRL Difference Viewer

MASTER ASSIGNMENT

STUDENT ASSIGNMENT

Files are different.

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<xbrl xmlns="http://www.xbrl.org/2003/instance" link="http://www.xbrl.org/2003/linkbase" xlink="http://www.w3.org/1999/xlink"
us-gaap="http://xbrl.us/us-gaap/2009-01-31" iso4217="http://www.xbrl.org/2003/iso4217" xbrli="http://www.xbrl.org/2003/instance"
digdeep="http://learnxbrl.net">
```

```
<link:schemaRef
type="simple" xlink:href="DigDeepTaxonomy.xsd"/>
```

```
<context
```

```
id="Duration_1_1_2009_To_12_31_2009">
```

```
<entity>
```

```
<identifier
```

```
scheme="http://www.nyse.com">0123456789
```

```
</identifier>
```

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<xbrl
```

```
learnxbrl="http://learnxbrl.net" us-gaap="http://fasb.org/us-gaap/2011-01-31" xmlns="http://www.xbrl.org
/2003/instance" link="http://www.xbrl.org/2003/linkbase" xlink="http://www.w3.org/1999/xlink"
iso4217="http://www.xbrl.org/2003/iso4217" xbrli="http://www.xbrl.org/2003/instance" >
```

```
<link:schemaRef
```

```
type="simple" xlink:href="BasicFinancials.xsd"/>
```

```
<context
```

```
id="Duration_1_1_2009_To_12_31_2009">
```

```
<entity>
```

```
<identifier
```

```
scheme="http://www.nyse.com">1234567890
```

```
</identifier>
```

LXBRL – Compare

Pension assignment

```
<us-gaap:DefinedBenefitPlanActualReturnOnPlanAssets  
  contextRef="dd20082" unitRef="USD" decimals="-6"> 74000000  
</us-gaap:DefinedBenefitPlanActualReturnOnPlanAssets>  
<us-gaap:DefinedBenefitPlanActualReturnOnPlanAssets  
  contextRef="dd2009" unitRef="USD" decimals="-6"> -260000000  
</us-gaap:DefinedBenefitPlanActualReturnOnPlanAssets>
```

```
<us-gaap:DefinedBenefitPlanActualReturnOnPlanAssetsStillHeld  
  contextRef="dd20082" unitRef="USD" decimals="-6"> 74000000  
</us-gaap:DefinedBenefitPlanActualReturnOnPlanAssetsStillHeld>  
<us-gaap:DefinedBenefitPlanActualReturnOnPlanAssetsStillHeld  
  contextRef="dd2009" unitRef="USD" decimals="-6"> -260000000  
</us-gaap:DefinedBenefitPlanActualReturnOnPlanAssetsStillHeld>
```

Scale

```
<xbrl:document type>  
<dei:EntityCentralIndexKey  
  contextRef="dd2009"> 1234567890  
</dei:EntityCentralIndexKey>  
<dei:EntityCommonStockSharesOutstanding  
  contextRef="dd20092" unitRef="Shares" decimals="-6">  
  1568955000000  
</dei:EntityCommonStockSharesOutstanding>  
<dei:EntityCurrentReportingStatus  
  contextRef="dd2009"> Yes  
</dei:EntityCurrentReportingStatus>  
<dei:EntityFilerCategory  
  contextRef="dd2009"> Large Accelerated Filer  
</dei:EntityFilerCategory>  
<dei:EntityPublicFloat  
  contextRef="dd20092" unitRef="USD" decimals="-6"> 250000000  
</dei:EntityPublicFloat>
```

```
<xbrl:document type>  
<dei:EntityCentralIndexKey  
  contextRef="dd2009"> 1234567890  
</dei:EntityCentralIndexKey>  
<dei:EntityCommonStockSharesOutstanding  
  contextRef="dd20092" unitRef="Shares" decimals="INF"> 1568955  
</dei:EntityCommonStockSharesOutstanding>  
<dei:EntityCurrentReportingStatus  
  contextRef="dd2009"> Yes  
</dei:EntityCurrentReportingStatus>  
<dei:EntityFilerCategory  
  contextRef="dd2009"> Large Accelerated Filer  
</dei:EntityFilerCategory>  
<dei:EntityPublicFloat  
  contextRef="dd20092" unitRef="USD" decimals="INF"> 250000000  
</dei:EntityPublicFloat>
```

Compare

```
<us-gaap:CostOfGoodsSoldOilAndGas
contextRef="Duration_1_1_2008_To_12_31_2008" unitRef="Unit1" decimals="-6"> -15677000000
</us-gaap:CostOfGoodsSoldOilAndGas>
<us-gaap:CostOfGoodsSoldOilAndGas
contextRef="Duration_1_1_2009_To_12_31_2009" unitRef="Unit1" decimals="-6"> -15009000000
</us-gaap:CostOfGoodsSoldOilAndGas>
<us-gaap:CurrentIncomeTaxExpenseBenefit
contextRef="Duration_1_1_2008_To_12_31_2008" unitRef="Unit1" decimals="-6"> -411000000
</us-gaap:CurrentIncomeTaxExpenseBenefit>
<us-gaap:CurrentIncomeTaxExpenseBenefit
contextRef="Duration_1_1_2009_To_12_31_2009" unitRef="Unit1" decimals="-6"> 135000000
</us-gaap:CurrentIncomeTaxExpenseBenefit>
```

```
<us-gaap:CostOfGoodsSold
contextRef="Duration_1_1_2008_To_12_31_2008" unitRef="Unit1" decimals="-6"> -15677000000
</us-gaap:CostOfGoodsSold>
<us-gaap:CostOfGoodsSold
contextRef="Duration_1_1_2009_To_12_31_2009" unitRef="Unit1" decimals="-6"> -15009000000
</us-gaap:CostOfGoodsSold>
```



21st XBRL International Conference

“One Language, Common Vision: Role of XBRL Technology in the Post Crisis Era

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Academic Track 6

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Wednesday October 20