July, 2023

### OUTPUT TO EXCEL STARTER KIT

14 sample techniques to reproduce to bring your output Excel generation to a high level of dynamicity.

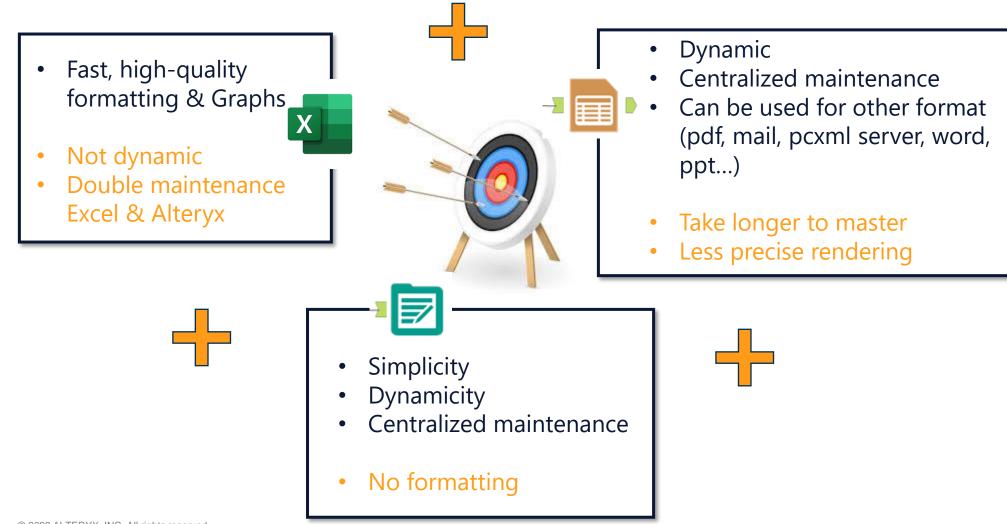
Stéphane PORTIER Lead Sales Engineer





### **OUTPUT TO EXCEL – A SOLUTION FOR EVERY CONTEXT**

You must choose and combine method according to your expectations and level



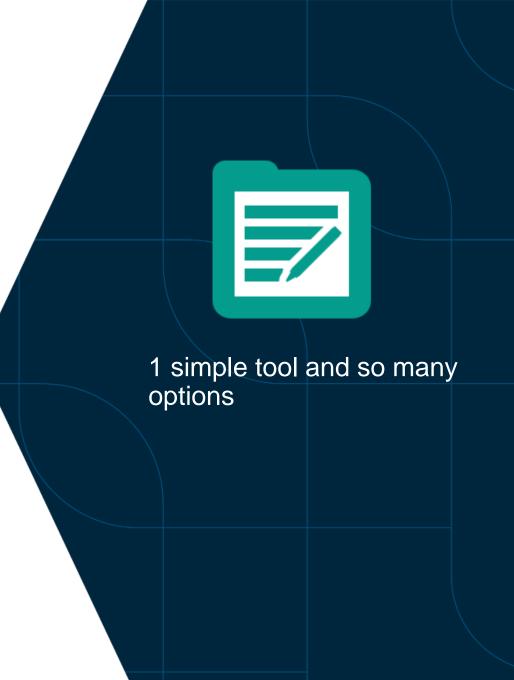
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### **CONTENT** Understand and select the examples

	Level	Multi-file generation ?	Dynamic ?	Multi-tab generation ?	Dynamic ?	Formatting via Alteryx ?	Possibility of formats other than xlsx?	Multiline header management ?	Generating and pasting formula in Excel ?	Using Excel Preformated template?
The basics of Output Tool										
01. Generate static file+tab with raw data	Beginner	NO	NO	YES	NO	NO	NO	NO	NO	NO
02. Generation of a static file+tab with raw data pointing to a specific Excel area of the tab	Beginner	NO	NO	YES	NO	NO	NO	NO	YES	YES
03. Generation of a file with tabs dynamically generated according to dataset values	Beginner	NO	NO	YES	YES	NO	NO	NO	NO	NO
04. Generation of a Path + file + tabs + zone dynamically generated according to dataset values	Beginner	YES	YES	YES	YES	NO	NO	NO	NO	NO
Reporting tool basics (Table, Render, Layout, Report Text)										
05. Single-line header formatting using Table tool, then .xlsx generation using Render tool	Beginner	NO	NO	NO	NO	YES	YES	NO	NO	NO
06. Single-line header formatting via Table tool, then .xlsx generation via Render tool. Dynamic tab generation	Beginner	NO	NO	OUI	YES	YES	YES	NO	NO	NO
07. Multi-line header formatting (complex) via Table tool then Render.	Advanced	NO	NO	NO	NO	YES	YES	YES	NO	NO
The basics of using Excel templates = I copy/paste into a pre-formatted Excel file										
08. Insertion of result data in a pre-formatted Excel zone	Beginner	NO	NO	NO	NO	NO	NO	YES	NO	YES
09. Insertion of raw data in a data tab, which is then processed by a reporting tab with formulas and calculation	Beginner	NO	NO	NO	NO	NO	NO	YES	NO	YES
10. Duplicate a reference XLSX template BEFORE copying data into it.	Intermediate	NO	NO	NO	NO	NO	NO	YES	NO	YES
Mass distribution based on a single template										
11. Duplicate the same XLSX template for the N combinations, then copy/paste data into these N variations.	Intermediate	YES	YES	YES	YES	NO	NO	YES	NO	YES
12. Using Reporting tools, multi-tab N combinatorial declensions for SINGLE-line header tables	Intermediate	YES	YES	YES	YES	YES	YES	NO	NO	NO
13. Using Reporting tools, Combinatorial N declensions for MULTI-line header tables on several tabs	Advanced	NO	NO	YES	YES	YES	YES	YES	NO	NO
14. Dynamic formatting via Reporting + dynamic generation of formulas to paste into formatted output	Advanced	NO	NO	YES	YES	YES	NO	NO	YES	YES

### THE BASICS OF THE OUTPUT TOOL

Master the basics to get the full potential. There is powerful hidden options.



### **01.** Generate static file + tab with raw data

Easy to learn

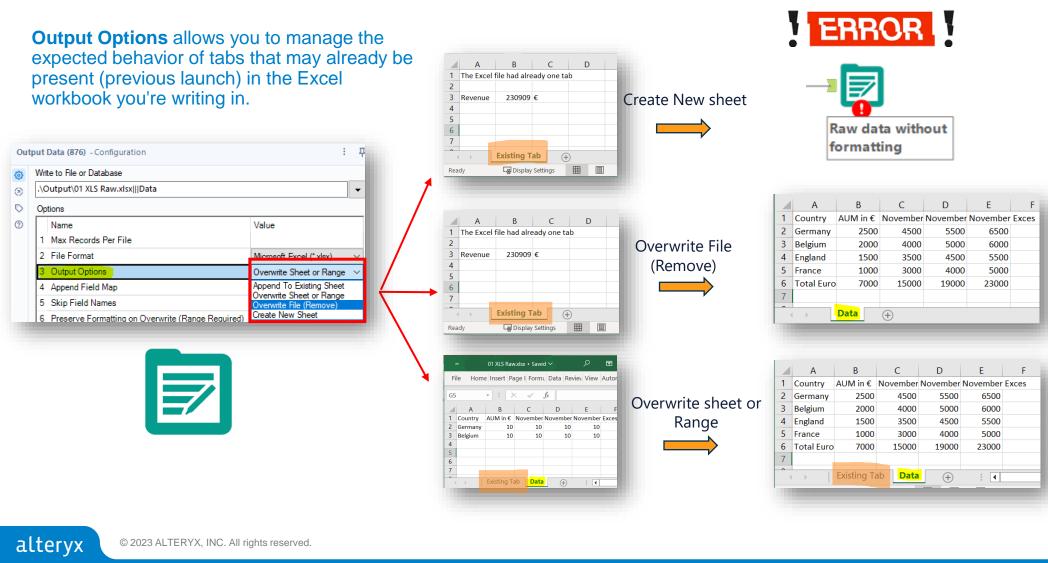
	Raw data without formatting		
Out	tput Data (876) - Configuration		: Ŧ
0	Write to File or Database		
3	.\Output \ <mark>01 XLS Raw.xlsxIIIData</mark>		
0	Set Up a Connection		
0	Use Data Connection Manager (DCM)		
	Options		
	Name 1 Max Records Per File	Value	
	2 File Format	Microsoft Excel (*.xlsx)	$\sim$
	3 Output Options	Overwrite Sheet or Range	$\sim$
	4 Append Field Map	By Field Name	
	5 Skip Field Names 6 Preserve Formatting on Overwrite (Range Required)		

	A	В	C	D	E	F
1	Country	AUM in €	November	November	November	Exces
2	Germany	2500	4500	5500	6500	
3	Belgium	2000	4000	5000	6000	
4	England	1500	3500	4500	5500	
5	France	1000	3000	4000	5000	
5	Total Euro	7000	15000	19000	23000	
7						
В						
		<mark>Data</mark>	+			
			<u> </u>	_	_	_

**Comfort zone** Basic single output with dynamic number of columns/ rows without formatting

### 01. Generate static file + tab with raw data

Understand how to manage the Existing Excel tabs.



It raises an error if the **file** already exists. Otherwise create file and tab. = you are sure this is the 1<sup>st</sup> time it runs

Delete/create the **file** (and existing tabs) to create a new one with just this tab.

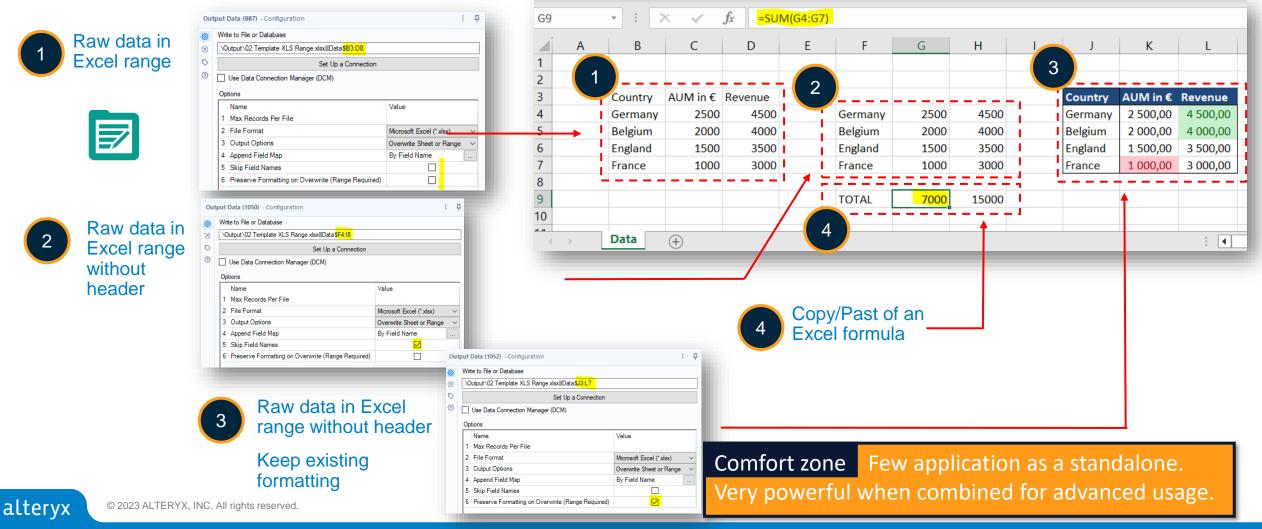
= You are sure there is no old unrelevant tabs left

Delete/create only the **tab** with the same name (if any). Existing tabs remain.

= you are sure you do not drop by mistake other tabs 6

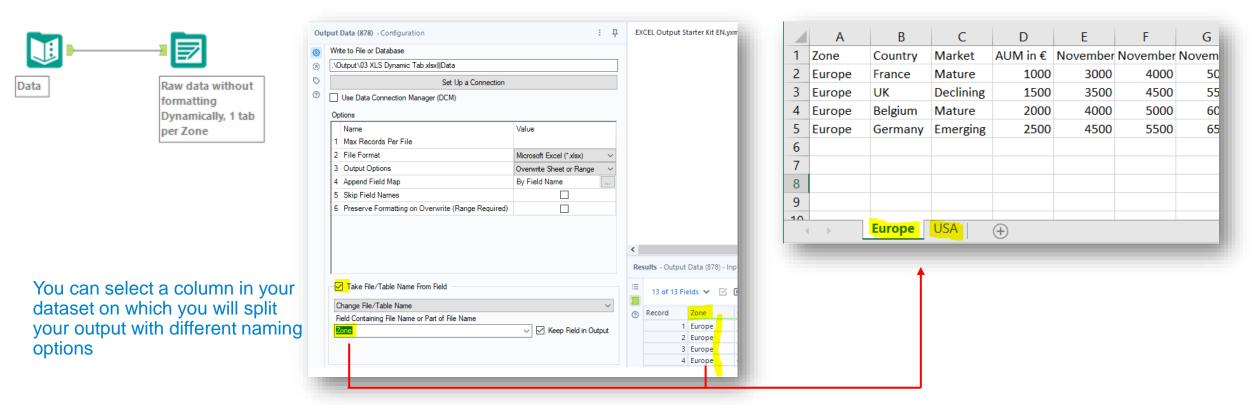
## 02. Generation of a static file + tab with raw data pointing to a specific Excel range of the tab

So powerful to reach advanced automation and dynamicity (cf next cases)



## 03. Generation of a file with tabs dynamically generated according to dataset values

Easy magic dynamicity starts here



**Comfort zone** No formatting and when the number of output tab vary in time, maintenance is easier.

### 04. Generation of a Path + file + tabs + zone dynamically generated according to dataset values

The MUST to know. Allow every single output Excel option to be dynamic based on your data

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	ata without		<ul> <li>Dynamicu</li> </ul>	e Outr	out File	Nam	\Outpu	t\04 XLS	Dynamic_N	lame Euro	pe.xlsxIIIM	larket-Mat	ure\$C4:01	0		17000	3	(Output\04)	KLS_Dynamic_N	Name_Euro	pe.xlsx   M
name& tab formati	-	<b>O</b>	-													17600	3	(Output\04)	XLS_Dynamic_1	Name_Euro	pe.xlsx   M
-	rically, 1 tab rket, 1 file		🥤 ". \Outpu	t\04 )	XLS_D	ynamic	_Name_'	'+[Zone]	+".xlsx'	'+"   Ma	rket-"+[	[Market]	+"\$C4:0	10" -	$\rightarrow$	18200	3	(Output\04)	KLS_Dynamic_N	Name_Euro	pe.xlsx   M
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Use Data Connection Manager (DCM)				2																_	
Options				3																_	
Name	Value			4			Zone	Country	Market	AUM in €	November	November	November 3	Y_fund	3Y_index 3	Y_Exces	2020 fund 2	02 index	2020_Excec		
1 Max Records Per File		_		5			Europe	Germany	Emerging	2500	4500	5500	6500	10500	11500	12500	16500	17500	18500	_	
2 File Format	Microsoft Excel (* xlsx)	~		6			Europe	Luxembo	u Emerging	1000	3000	4000	5000	9000	10000	11000	15000	16000	17000	_	
3 Output Options	Overwrite Sheet or Range	~		7			Europe	Nederlan	d Emerging	2200	4200	5200	6200	10200	11200	12200	16200	17200	18200		
4 Append Field Map	By Field Name			8																	
5 Skip Field Names				9																	
6 Preserve Formatting on Overwrite (Range Require	red)		_	10					_			-								_	
				< >		Market-L	eclining	Market-	Emerging	Market-	Mature	$(\pm)$			•					_	
Take File/Table Name From Field     Change Entire File Path     Field Containing File Name or Part of File Name     Dynamique Output File Name	∽ ∽ ☐ Keep Field in Output								~	dy	nami	cally	base	ed oi		a: Fc			outpu , tab,		

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### 04. Generation of a Path + file + tabs + zone dynamically generated according to dataset values

The MUST to know. Allow every single output Excel option to be dynamic based on your data

The syntax always follow the same pattern:

[Windows path] \ [File name]. [extension] | | | [Tab name] \$ [Upper left corner]: [Lower right corner]

Be sure to include separators:
\ before the file name
. Before the extension
||| ( 3 pipes) before the tab name
\$ before the Excel range
: between the 2 corners delimiting the Excel zone

Mastering this syntax using the formula tool is a game changer and the path to a fully automated and dynamic workflow

#### Example:

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C:\Alteryx\Workflows\REPORTING\_XLS.xlx|||Data\$A2:H90 ⇒write in the file REPORTING XLS.xlsx in the data tab in the range A2:H90

C:\Alteryx\Workflows\REPORTING\_XLS.xlx|||Data ⇒write to file REPORTING XLS.xlsx in data tab. No range defined.

So ANYTHING can be made dynamic via a formula.
Example:
".\Output\04 Reporting\_"+[Zone]+".xlsx"+"|||Market-"+[Market]+"\$C4:010"
generates:
.\Output\04 Reporting Europe.xlsx|||Market-Mature\$C4:010

=> Alteryx can be used to generate any files/tabs/zones in any directory. © 2023 ALTERYX, INC. All rights reserved.

# THE BASICS OF THE REPORTING TOOL

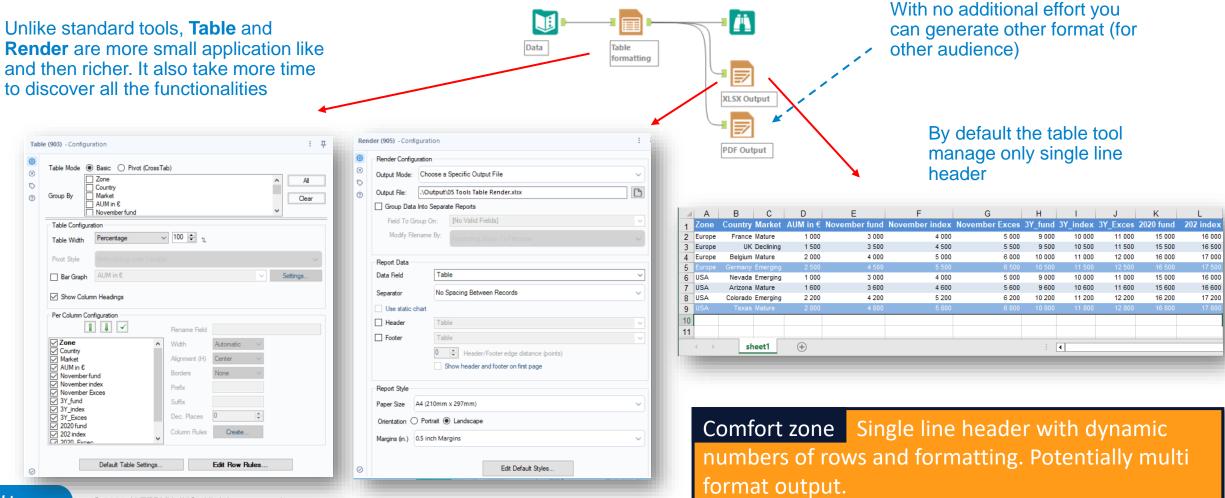
Complex at 1<sup>st</sup> sight they have an incredible scaling ability once understood.

Beyond Excel they can generate a lot of others formats.



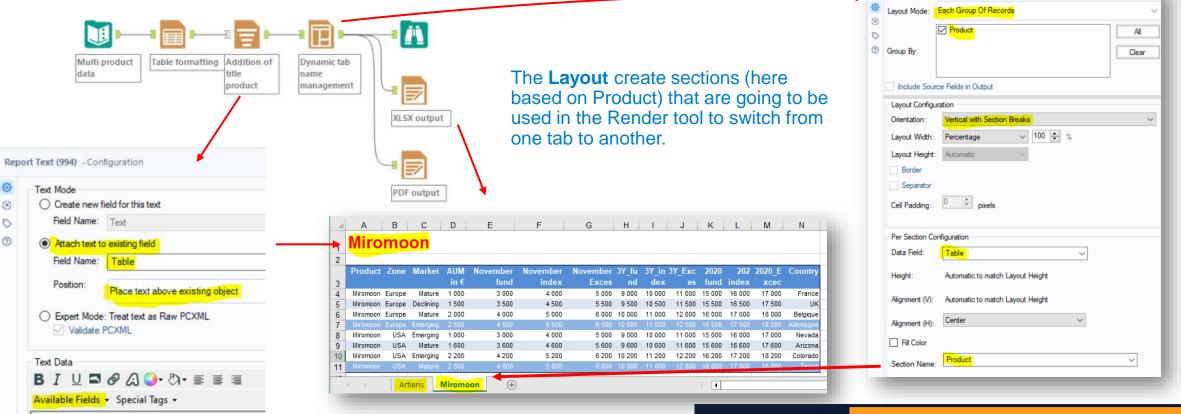
### 05. Single-line header formatting using Table tool, then .xlsx generation using Render tool

Learn the basics



## 06. Single-line header formatting via Table tool, then .xlsx generation via Render tool. Dynamic tab generation

Easy to use (once you know the right options)



**Comfort zone** Single line header with dynamic numbers of rows, tabs and formatting. Potentially multi format output.

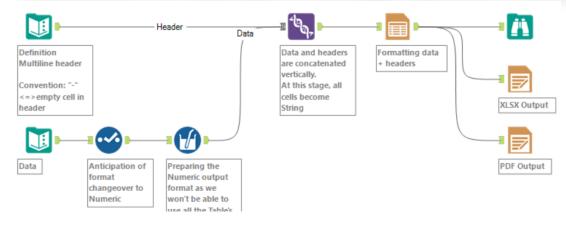
Layout (926) - Configuration

:

[Product:A]

## 07. Multi-line header formatting (complex) via Table tool then Render.

Advanced formatting to manage dynamic number of rows/format and multi header



By default the Table tool only manage single header. You can combine different Table object to create a multi-header but this is complex and not easy to maintain.

This presented solution manage the multi header as special case of data rows. You move from complex combination of several tools to complex formatting of one single Table tool.

<u>Principle:</u> generate a single data table which is the vertical Union of the Header and the Data.

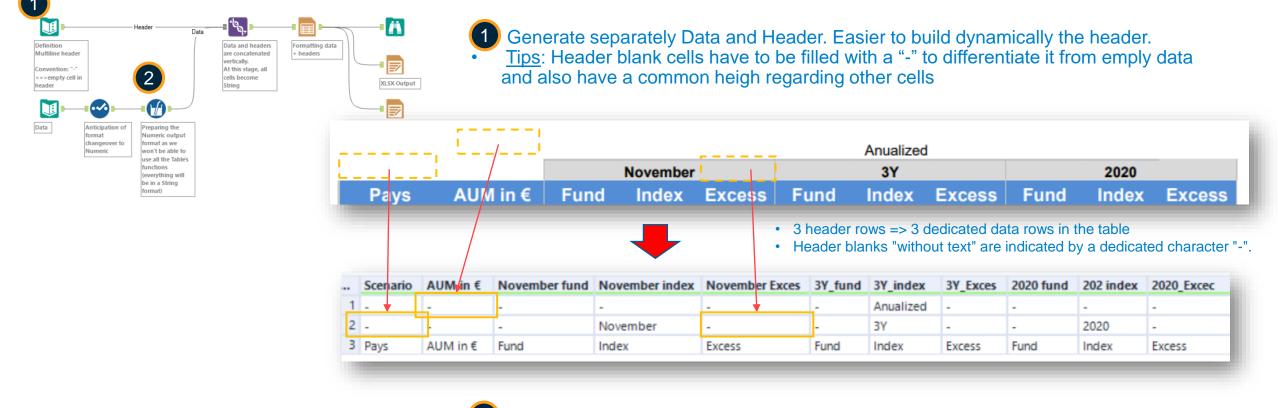
Then you format this single table using the standard Table formatting, the header being a particular case to manage.

	Scenario	AUM in €	November fun		ember index	November Exce	es 3Y_fund			2020 fund	202 index	2020_Exce
1	-	-	-	-		-		Anualized	-	-	-	-
2		-	-	Nove	mber	-		ЗY			2023	-
3	Country	AUM in €	Fund	Index	(	Excess	Fund	Index	Excess	Fund	Index	Excess
	Germany	2 500	4 500	5 500	,	0.500	10 500	11500	12 500	10 500	17 500	10 500
	Belgium	2 000	4 000	5 000		6 000	10 000	11 000	12 000	16 000	17 000	18 000
6	England	1 500	3 500	4 500	)	5 500	9 500	10 500	11 500	15 500	16 500	17 500
	France	1 000	3 000	4 000	)	5 000	9 000	10 000	11 000	15 000	16 000	17 000
8	Total Europe	7 000	15 000	19 00		23 000	39 000	43 000	47 000	63 000	67 000	71 000
	Arizona	1 600	3 600	4 600		5 600	9 600	10 600	11 600	15 600	16 600	17 600
	Colorado	2 200	4 200	5 200		6 200	10 200	11 200	12 200	16 200	17 200	18 200
	Nevada	1 000	3 000	4 000		5 000	9 000	10 000	11 000	15 000	16 000	17 000
	Texas	2 800	4 800	5 800	)	6 800	10 800	11 800	12 800	16 800	17 800	18 800
	Total USA	7 600	15 600	19 60	00	23 600	39 600	43 600	47 600	63 600	67 600	71 600
	Grand Total	14 600	30 600	38 60	00	46 600	78 600	86 600	94 600	126 600	134 600	142 600
			ВС		D	E	<b>7</b> F	G	Н	1	J	ĸ
1					D	E	7 <sub>E</sub>	G Anualized 3Y	н		2023	ĸ
1 2	A	_	B C	N	D	Excess F		3Y	H Excess	Fund	2023 Index	K Excess
1 2 3	Countr	_	B C M in € Fur	N	D	Excess F		3Y		Fund		
1 2 3 4	Countr	y AUI	B C M in € Fur 2500	N Id 1 500 -	D ovember Index 5 500	<u>6 500</u>	und I	3Y ndex E 11 500	Excess	16 500	Index 17 500	10 500
1 2 3 4 5	Counti Comany Belgium	ry AUI	B C M in € Fur 2 000	N	D ovember Index		und l	3Y ndex E	Excess 12 600 12 000	16 500 <b>*</b> 16 000 <b>*</b>	Index 17 500 17 000	<del>18 500</del> 18 000
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1 2 3 4 5 6 7 8 9	Countr Comany Belgium England France Total Europe Arizona Colorado Nevada Texas Total USA	y AU	B         C           2 600         -           2 000         -           1 500         -           1 000         -           2 200         -           1 600         -           2 200         -           1 000         -           2 200         -           1 000         -           2 200         -           1 000         -           2 800         -           7 600         1	N 500 500 500 500 500 500 500 50	D           index           5 000 °           4 500 °           4 500 °           19 000 °           4 600 °           5 200 °           4 000 °	6 000 5 500 5 000 23 000 5 600 6 200 5 000	Fund 10 500 F 10 500 F 9 500 F 9 000 F 39 000 F 10 200 F 9 000 F	3Y ndex E 11 000 10 500 10 000 43 000 10 600 11 200 10 000	Excess 12 500 12 000 11 500 11 000 47 000 11 600 12 200 11 000	16 500 × 16 000 × 15 500 × 15 000 × 63 000 × 15 600 × 16 200 ×	Index 17 500 17 000 16 500 16 000 67 000 16 600 17 200 16 000	18 500 18 000 17 500 17 000 71 000 17 600 18 200 17 000

Comfort zone Multi line header with dynamic numbers of rows and formatting. Potentially multi format output.

## 07. Multi-line header formatting (complex) via Table tool then Render.

Understanding preparation of the header



As the header are String, when combining to the data it will switch the full table (header + data) to string. You then need to manage the output format before the Union.

### 07. Multi-line header formatting (complex) via Table tool then Render.

Row and column styling to manage the header specificities

Definition Multiline header Convention: "-" < => empty cell in header	Header Data and headers are concatenated vertically. At this stage, all cells become String	column styling rules.	e jointly for header and data, in the Row styling and
Data Anticipation format changeover Numeric	Numeric output	Header 1 Header 2 Header 3 Sub Total Grand Total	New Delete Delete Delete Down Down Column styling per header + per data type
Table S Table Table Table Table Table Table	(800) - Configuration     (800) - Configuration     (B00) - Configuration     (Constrained in the second seco	Rule Name         Header?2         Apply         Always         When       Row # • • • • 2         Formula       1         This Rule should override conflicting Per-Column Rules         Fort Size         Justification         Center         Justification         Center         Background Color         R=217, G=217, B=217         Background Color         R=217, G=217, B=217         Close	Rule Name         Apply         Aways         When         Row #         rom size         Formula         Image: Second Secon
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### 07. Multi-line header formatting (complex) via Table tool then Render. Here is a list of CSS syntax that can be used within Alteryx

What is the CSS syntax adapt to Alteryx?

olumn Styling F	Rules - Scenario	x
Header 2		New
Borders		Delete
		Up
		Down
Rule Name Borders		
Apply		
O Always	to Data only 🗸 🗸	
When	Row # 🗸 <= 🗸 2	
O Formula	1	
Font Size     Justificati     Text Colo     Backgrou	r	Reset to Defaults
- Replaces		
Formula	"border-left: 1px solid white"	🗸
		Close Help

CSS is a generic language used in HTML page. It can be used in the Table to in the "Formula" menu. Its main usage is to manage conditionally the borders.

CSS Syntaxe	Initial Form	nated Function
	My Text My	Text <=== Insert on the left your syntax to test, the result will be displayed on the "Formated" column
background-color: rgb(0,128,255)	My Text My	Text The background color of a table cell or row.
background-color: yellow		Text
prefix: S		300
postfix: hrs		Othrs
color: red		Text Foreground color of the object.
color: rgb(0,128,255)		Text
border-left: 1px solid red		Text Define the borders around an element.
border-right: 3px solid green	My Text My	Text 3px = 3 pixel wide
border-top: 1px solid grey	My Text My	Text solid = plain row (Note: dash or double line does not work)
border-bottom: 4px solid rgb(0,128,255)	My Text My	Text For the color you can use RGB or the color name (cf table)
font-family: broadway	My Text My	Text select the font
font-size: 11	My Text My	Text Set how thick or thin characters in text should be displayed.
font-style: normal	My Text My	Text Set the style of a font: normal, italic, oblique
font-style: oblique		Text
font-weight: normal		Text
font-weight: bold	My Text My	Text
text-align: left	My Text My Te	Align the text in an element
text-align: right	My Text	My Text
text-align: center		Text
text-decoration: underline		Text The decoration of the text such as overline, underline, line-through, none, or blink
text-decoration: line-through	My Text My	Text
text-decoration: none	My Text My	Text

## **07.** Multi-line header formatting (complex) via Table tool then Render.

More explanations about Multi header and CSS?

	the second se		
Table de lane D	1. on decisive is table on standard on supprimers implement is lips of unlike	Articles about the multi row header using the Table tool + Workflow examp	les (French):
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Normality         Normality <t< th=""><th>Lesson 1     <u>https://community.alteryx.com/t5/Blog-Francais/Reporting-avance-ou-le-paradoxe-de-Spock-p/956769</u></th><th><u>10-Entete-multi-lignes/ba-</u></th></t<>	Lesson 1 <u>https://community.alteryx.com/t5/Blog-Francais/Reporting-avance-ou-le-paradoxe-de-Spock-p/956769</u>	<u>10-Entete-multi-lignes/ba-</u>
- Ise Ragies de relienne standard	In spelps in spire standards is colorer talls, juffication, bodyna         Annual	Lesson 2 <u>https://community.alteryx.com/t5/Blog-Francais/Reporting-avance-ou-le-paradoxe-de-Spock-1</u>	1-Entete-multi-lignes/ba-p/956821
in the second se	Name         Date         Date <thdate< th="">         Date         Date         <thd< th=""><th></th><th><pre>// Valeur &lt;= 2 if [Col1]&lt;=2 then     "color: dodgerblue;      background-color: white;     border-right: 2px solid dodgerblue;     border-left: 2px solid dodgerblue;     border-top: 2px solid dodgerblue;     border-bottom: 2px solid dodgerblue;"</pre></th></thd<></thdate<>		<pre>// Valeur &lt;= 2 if [Col1]&lt;=2 then     "color: dodgerblue;      background-color: white;     border-right: 2px solid dodgerblue;     border-left: 2px solid dodgerblue;     border-top: 2px solid dodgerblue;     border-bottom: 2px solid dodgerblue;"</pre>
Detailed	d CSS Article (French) &	& workflow examples:	<pre>// Valeur &gt;= 8 elseif [Coll]&gt;=8 then     "color: white;     border-right: lpx solid dodgerblue;     border-left: lpx solid dodgerblue;</pre>
Disc	over CSS in Alteryx		<pre>border-top: lpx solid dodgerblue; border-bottom: lpx solid dodgerblue;</pre>
		-Francais/Reporting-avance-ou-le-paradoxe-de-Spock-3-Decouverte-de-la/ba-p/918777	background-color: dodgerblue"
	· · · · · · · · · · · · · · · · · · ·	Transalo, Reporting availed ou le paradoxe de opoer o Decouverte de la/ba-p/910111	// Autres cellules else ""
• 1st a	advanced example:		endif

https://community.alteryx.com/t5/Blog-Francais/Reporting-avance-ou-le-paradoxe-de-Spock-4-1er-Exemple-avance-d/ba-p/919319

• 2nd Advanced Example:

https://community.alteryx.com/t5/Blog-Francais/Reporting-avance-ou-le-paradoxe-de-Spock-5-2eme-Exemple-avance-d/ba-p/919380

## THE BASICS OF USING EXCEL TEMPLATES

= Alteryx copy/paste into a pre-formatted Excel file

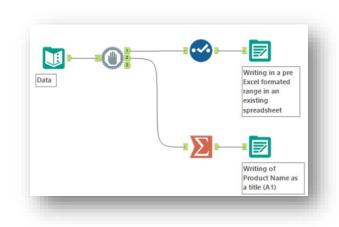
### **Best of breed**

Leverage the power of Alteryx to dynamically prepare the data and...

the power of Excel to prepare quick and nice reports

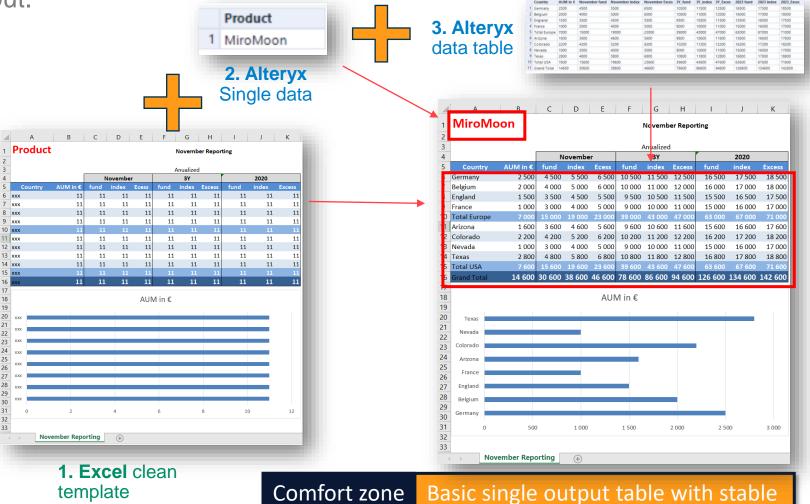
### 08. Insertion of result data in a pre-formatted Excel range

Quick win for single table output.



Wri	te to File or Database	
.\C	0utput\08 Template XLS Zone Formate.xlsx   Novembe	r Reporting <mark>\$A6:K16</mark>
Ор	tions	
	Name	Value
1	Max Records Per File	
2	File Format	Microsoft Excel (*.xlsx) ~
3	Output Options	Overwrite Sheet or Range ~
4	Append Field Map	By Field Name
5	Skip Field Names	
6	Preserve Formatting on Overwrite (Range Required)	

Range definition + No header + preserving of Excel format

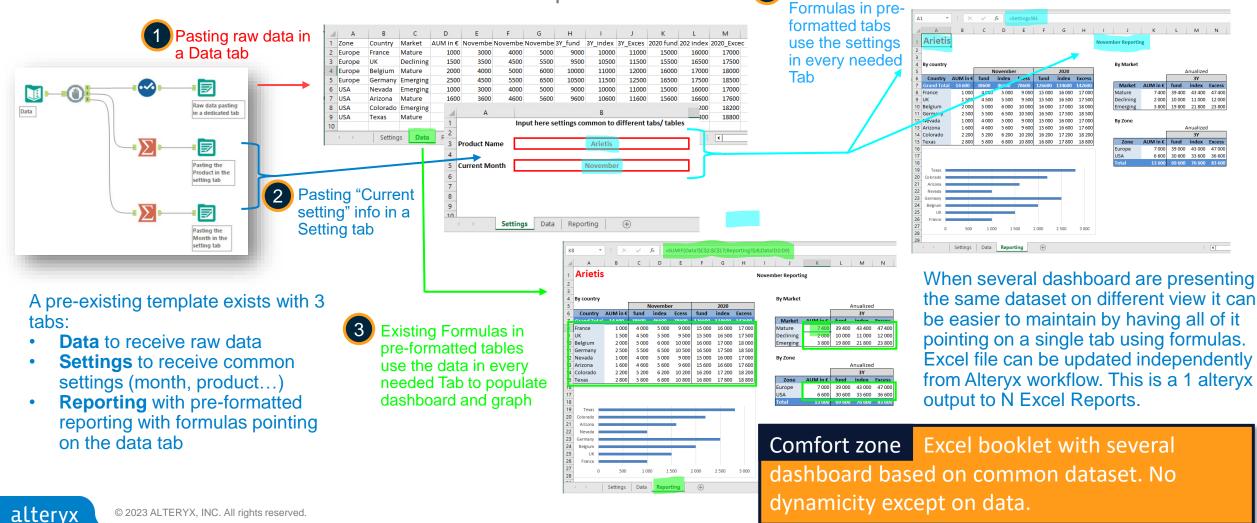


clean format + graph. No dynamicity except on data.

## 09. Raw data in a data tab, which is then processed by a reporting tab with formulas and calculations.

Existing

Quick win for several tabs and tables output



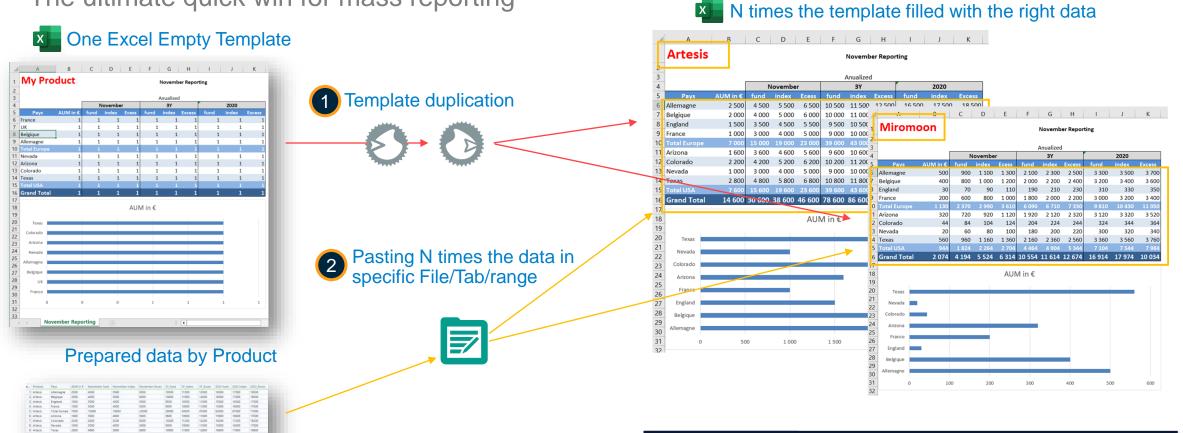
## Mass distribution based on a single template

Here are the example combining the best of each options to bring the workflow at an high level of dynamicity and customisation



### 11. Duplicate the same XLSX template for the N combinations, then copy/paste data into these N variations.

The ultimate quick win for mass reporting



**Comfort zone** Mass reporting with advanced Excel formatting but no dynamicity in the table size

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# 12. Using Reporting tools, multi-tab N combinatorial declensions for SINGLE-line header tables

From 1 unique Table tool you can generate hundreds of declinations

1 Table tool to format the common table for all the data combination

	Scenario	Product	Zone	Country	Market	AUM	November	November	November	3Y fund	3Y index	<b>3Y Exces</b>	2023	202
						in€	fund	index						inde
	Scenario 1	Artesis	Europe	France	Mature	1,000	3,000	4,000	5.000	9,000	10,000	11,000	15,000	16.00
	Scenario 1	Artesis	Europe	England	Declining	1,500	3,500	4,500	5,500	9,500	10,500	11,500	15,500	16,50
	Scenario 1	Artesis	Europe	Belgium	Mature	2,000	4,000	5,000	6,000	10,000	11,000	12,000	16,000	17,00
	Spenano 1		Europe						6,560		11,500			
	Scenario 1	Artesis	USA	Nevada	Emerging	1,000	3,000	4,000	5,000	9,000	10,000	11,000	15,000	16,00
	Scenario 1	Artesis	USA	Arizona	Mature	1,600	3,600	4,600	5,600	9,600	10,600	11,600	15,600	16,60
	Scenario 1	Artesis	USA	Colorado	Emerging	2,200	4,200	5,200		10,200	11,200	12,200	16,200	17,20
	Scenario 1	Antesis	U/54	Texas	Mahare	2.800	4,200	5,800	6,800	10,850	11,500	\$2,800		
2				-		Contract,				-		-	Inena	202
S.	Scenario	Product	Zone	country	Market	in €	fund	index	November Exces		sr_index	31_EXCes		inde:
	Scenario 1	Missmoor	Furne	France	Mature		300	400		900	1.000	1.10	1.500	1.60
	Scenario 1				Declining		350	450		950			1.550	1,65
	Scenario 1			Beloium			400	500	600	1.000	1,100		1.600	1.70
	Soecurio 1						457	1000		1 050			10.50	
	Scenario 1				Emerging		300	400	500	900	1.000		1.500	1.60
	Scenario 1			Arizona			360	460	560	960	1.060	1.160	1.560	1.66
	Scenario 1	Miromoon	USA	Colorado	Emerging	220	420	520	620	1.020	1.120	1.22	1.620	1.72
	Scenario 1	[Transients	11072	and a located	Mahar	1000	417	100	100	1.000	1 180	12,000	NILSO)	No Red

2	

*Layout* tool to split the combination by File / Tab and *Formula* to generate the file path/name







	Scenario	Product	Layout	Output File	-
1	Scenario 1	Artesis	Layout - Visualiser Explorateur Outil Rapport On	.\Output\12 Tool Table Render Tab-Scenario 1.xlsx	
2	Scenario 1	Miromoon	Layout - Visualiser Explorateur Outil Rapport On	.\Output\12 Tool Table Render Tab-Scenario 1.xlsx	-
З	Scenario 2	Artesis	Layout - Visualiser Explorateur Outil Rapport On	.\Output\12 Tool Table Render Tab-Scenario 2.xlsx	
4	Scenario 2	Miromoon	Layout - Visualiser Explorateur Outil Rapport On	.\Output\12 Tool Table Render Tab-Scenario 2.xlsx	

A       B       C       D       E         A       B       C       D       E         Artesis       - Scenario	A	ıtoSave On		9 ° C	~ @ •	⊽ 2	Tool T	able Render	lab-Scenari	io 1.xls (					
Paste       → <td>File</td> <td>e Hom</td> <td>e Insert</td> <td>Pag€</td> <td>e Layout</td> <td>Formulas</td> <td>Da</td> <td>ta Reviev</td> <td>v View</td> <td>Aut</td> <td>(</td> <td></td> <td></td> <td></td> <td></td>	File	e Hom	e Insert	Pag€	e Layout	Formulas	Da	ta Reviev	v View	Aut	(				
A       B       C       D       E         A       B       C       D       E         Artesis       - Scenario	~	te 🗳	B I ⊞ ~	<u>U</u> ~ A	A^ Aĭ		₹ ~	utoSave On	•	Format	t 				cenario 2.xl:x
Scenario       Product       Zone       Country       Market AUR       Clipboard       Fort       Scenario 1       Alignment       Scenario 2       Number         3       Scenario 1       Artesis       Europe       England       Declining       Ali       *       *       *       *       *       Miromoon - Scenario 2         5       Scenario 1       Artesis       Europe       Belgium       Mature       A       B       C       D       E       F       G         6       Scenario 1       Artesis       USA       Nevada       Emerging       7       Scenario 1       Artesis       USA       Nevada       Emerging       2       Scenario 2       Scenario 2       Scenario 2       Miromoon       Europe       Scenario 2       Scenario 2<	A1	-	+ ×	<	fx A	rtesis - Scena	H FI		e Insert	5	· · ·				
Scenario       Product       Zone       Country       Market AUR       Clipboard       Fort       Scenario 1       Alignment       Scenario 2       Number         3       Scenario 1       Artesis       Europe       England       Declining       Ali       *       *       *       *       *       Miromoon - Scenario 2         5       Scenario 1       Artesis       Europe       Belgium       Mature       A       B       C       D       E       F       G         6       Scenario 1       Artesis       USA       Nevada       Emerging       7       Scenario 1       Artesis       USA       Nevada       Emerging       2       Scenario 2       Scenario 2       Scenario 2       Miromoon       Europe       Scenario 2       Scenario 2<	1	 <mark>Artes</mark>		c cena		E	Pa		Arial	<u>U</u> ~ [	<ul> <li>12 </li> <li>₩</li> <li></li> </ul>	· A^ A` ~ <u>A</u> ~			• % •
3       Scenario 1       Artesis Europe       France       Mature       A1       i       ✓       fx       Miromoon - Scenario 2         4       Scenario 1       Artesis       Europe       England       Declining         5       Scenario 1       Artesis       Europe       Belgium       Mature         6       Scenario 1       Artesis       Europe       Germany       Emerging         7       Scenario 1       Artesis       USA       Nevada       Emerging         8       Scenario 1       Artesis       USA       Arizona       Mature         9       Scenario 1       Artesis       USA       Colorado       Emerging       2         10       Scenario 1       Artesis       USA       Texas       Mature       3       Scenario 2       Miromoon       Europe         11       Image: Scenario 2       Miromoon       Europe       France       Mature       100       300         11       Image: Scenario 2       Miromoon       Europe       Germany       Emerging       100       300         11       Image: Scenario 2       Miromoon       Usa       Europe       Belgium       Mature       200       400 <tr< td=""><td>0</td><td>Scenario</td><td>Product</td><td>Zone</td><td>Country</td><td>Market AU</td><td>Cli</td><td>pboard 🗔</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Number I</td></tr<>	0	Scenario	Product	Zone	Country	Market AU	Cli	pboard 🗔							Number I
4       Scenario 1       Artesis       Europe       England       Declining         5       Scenario 1       Artesis       Europe       Belgium       Mature         6       Scenario 1       Artesis       Europe       Germany       Emerging         7       Scenario 1       Artesis       USA       Nevada       Emerging         8       Scenario 1       Artesis       USA       Arizona       Mature         9       Scenario 1       Artesis       USA       Colorado       Emerging         10       Scenario 1       Artesis       USA       Texas       Mature       3         11       Scenario 2       Miromoon       Europe       France       Mature       100       300         11       Scenario 2       Miromoon       Europe       USA       Scenario 2       Miromoon       Europe       Germany       Emerging       160       360         11       Scenario 2       Miromoon       USA       Scenario 2       Miromoon       USA       Artesis       Miromoon       Scenario 2       Miromoon       USA       Arizona       Mature       160       360       300       300       300       300       300       300		Scenario 1	Artesis	Europe	France	Mature	A1		1 : 🗙	· · ·	.fx N	/iromoor	- Scenario	2	
5       Scenario 1       Artesis       Europe       Belgium       Mature         6       Scenario 1       Artesis       Europe       Germany       Emerging         7       Scenario 1       Artesis       USA       Nevada       Emerging         8       Scenario 1       Artesis       USA       Arizona       Mature         9       Scenario 1       Artesis       USA       Colorado       Emerging         10       Scenario 1       Artesis       USA       Texas       Mature       3         11       Scenario 2       Miromoon       Europe       France       Mature       100       300         12       Artesis       Miromoon       (+)       6       Scenario 2       Miromoon       Europe       Berging       250       450         11       Scenario 2       Miromoon       Usope       Germany       Emerging       250       450         12       Scenario 2       Miromoon       Usope       Germany       Emerging       250       450         13       Scenario 2       Miromoon       Usope       Germany       Emerging       250       450       300         14       Scenario 2       Miromo	_					Declining									
7       Scenario 1       Artesis       USA       Nevada       Emerging       1         8       Scenario 1       Artesis       USA       Arizona       Mature       3       Scenario 1       Artesis       USA       Arizona       Mature       2       Scenario 1       Artesis       USA       Colorado       Emerging       2       Scenario 2       Miromoon       Europe       France       Mature       100       300		Scenario 1	Artesis	Europe	Belgium	Mature		Α	В	С	D	E	F	G	H
77       Scenario 1       Artesis       USA       Nevada       Emerging       2         8       Scenario 1       Artesis       USA       Arizona       Mature       2         9       Scenario 1       Artesis       USA       Colorado       Emerging       2         10       Scenario 1       Artesis       USA       Colorado       Emerging       2         11	6	Scenario 1	Artesis	Europe	Germany	Emerging		Miron	noon	- 50	cenar	io 🤈			
9       Scenario 1       Artesis       USA       Colorado       Emerging       2         10       Scenario 1       Artesis       USA       Texas       Mature       3       Scenario 2       Miromoon       Europe       France       Mature       100       300         11       Artesis       USA       Texas       Mature       3       Scenario 2       Miromoon       Europe       UK       Declining       150       350         11       Artesis       Miromoon       ←       6       Scenario 2       Miromoon       Europe       Belgium       Mature       200       400         10       Artesis       Miromoon       ←       6       Scenario 2       Miromoon       Europe       Germany Emerging       100       300         10       Scenario 2       Miromoon       USA       Nevada       Emerging       100       300         8       Scenario 2       Miromoon       USA       Arizona       Mature       160       360         9       Scenario 2       Miromoon       USA       Texas       Mature       280       480         10       Scenario 2       Miromoon       USA       Texas       Mature       280 <td>7</td> <td>Scenario 1</td> <td>Artesis</td> <td></td> <td>Nevada</td> <td>Emerging</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	7	Scenario 1	Artesis		Nevada	Emerging	1								
10       Scenario 1       Artesis       USA       Texas       Mature       3       Scenario 2       Miromoon       Europe       France       Mature       100       300         11       4       Scenario 2       Miromoon       Europe       UK       Declining       150       350         11       5       Scenario 2       Miromoon       Europe       Belgium       Mature       200       400         11       6       Scenario 2       Miromoon       Europe       Germany       Emerging       250       450         7       Scenario 2       Miromoon       USA       Nevada       Emerging       100       300         8       Scenario 2       Miromoon       USA       Arizona       Mature       160       360         9       Scenario 2       Miromoon       USA       Colorado       Emerging       220       420         10       Scenario 2       Miromoon       USA       Texas       Mature       280       480	8					Mature		Scenario	Product	Zone	Country	Market	AUM in €	November fun	d Novemb
11       4       Scenario 2       Miromoon       Europe       UK       Declining       150       350         11       5       Scenario 2       Miromoon       Europe       Belgium       Mature       200       400         Artesis       Miromoon       Image: Scenario 2       Miromoon       Europe       Germany       Emerging       250       450         7       Scenario 2       Miromoon       USA       Nevada       Emerging       100       300         8       Scenario 2       Miromoon       USA       Arizona       Mature       160       360         9       Scenario 2       Miromoon       USA       Colorado       Emerging       220       420         10       Scenario 2       Miromoon       USA       Texas       Mature       280       480         11	-														
Artesis       Miromoon       (+)       6       Scenario 2       Miromoon       Europe       Belgium       Mature       200       400         7       Scenario 2       Miromoon       Usa       Nevada       Emerging       250       450         7       Scenario 2       Miromoon       USA       Nevada       Emerging       100       300         8       Scenario 2       Miromoon       USA       Arizona       Mature       160       360         9       Scenario 2       Miromoon       USA       Colorado       Emerging       220       420         10       Scenario 2       Miromoon       USA       Texas       Mature       280       480         11       Image       Image       Image       Image       Image       Image       Image	10	Scenario 1	Artesis	ÛSA	Texas	Mature	-								
Artesis       Miromoon       Image: Construct of the system of th	11														
7     Scenario 2     Miromon     USA     Nevada     Emerging     100     300       8     Scenario 2     Miromon     USA     Arizona     Mature     160     360       9     Scenario 2     Miromon     USA     Colorado     Emerging     220     420       10     Scenario 2     Miromon     USA     Texas     Mature     280     480			rtesis	Miromoo	on G		-				•				
8     Scenario 2     Miromoon     USA     Arizona     Mature     160     360       9     Scenario 2     Miromoon     USA     Colorado     Emerging     220     420       10     Scenario 2     Miromoon     USA     Texas     Mature     280     480       11     Interview     Interview     Interview     Interview     Interview     Interview							_				,				
9     Scenario 2     Miromoon     USA     Colorado     Emerging     220     420       10     Scenario 2     Miromoon     USA     Texas     Mature     280     480       11     Image: Colorado     Image: Colorado     Image: Colorado     Image: Colorado     Image: Colorado     Colorado     Emerging     220     420		1													
							_								
11							10	Scenario 2	Miromoon	USA	Texas	Mature	280	48	0
		•													
								▶   <mark>/</mark>	Artesis	Viromo	oon (-	F)			

Comfort zone Single mono header table to decline by numerous combination File + tab. Range have to be dynamic and advanced Excel formatting is not important.

### 14. Dynamic formatting via Reporting + dynamic generation of formulas to paste into formatted output

Advanced example showing dynamicity at every step. Only in Alteryx...

### Use case description:

I want to generate an input template for each entity. But from one to another they must not input the same rows. Moreover, to help my user to validate their input 1 want them to have Subtotals live within Excel  $\Leftrightarrow$  Excel formulas have to be generated. In blue the historical data. In orange the part to be inputed by users for Q4 forecast.

К12	: × √ f <sub>x</sub> =K7-	K8+K9	+K10+K1	1										
	Α	E	3	С	D	E	F	G	н	1	J	К	L	М
1	New York, Forecast Q4 i	npu	t tem	plate										
2	P&L	Janu	uary Feb	oruary M	arch A	April I	May J	June 、	July A	August Se	eptember	October N	ovember	Decembe
3	604-Purchases of studies and services		157	158	159	160	161	162	163	164	165			
4	60211-Materials (or group) C		37	38	39	40	41	42	43	44	45	28		
5	60212-Materials (or group) D		49	50	51	52	53	54	55	56	57	12		
6	6021-Consumable materials		86	88	90 🗖	92	94	96	98	100	102	40	0	
7	60222-Maintenance products		73	74	75	76	77	78	79	80	81			
3	60223-Workshop and factory supplies		85	86	87	88	89	90	91	92	93	12		
)	60224-Store supplies		97	98	99	100	101	102	103	104	105			
0	60225-Office supplies		109	110	111	112	113	114	115	116	117	89		
1	60221-Fuels													
2	6022-Consumable supplies		364 🗖	368 🗖	372	376	380 🗖	384 🗖	388 🗖	392 🗖	A 96	101	0'	
3	60261-Lost packaging		121	122	123	124	125	126	127	128	129			
4	60265-Unidentifiable recyclable packaging		133	134	135	136	137	138	139	140	141			
5	60267-Mixed-use packaging													
6	6026-Packaging		254	256	258	260	262	264	266	268	270	0	0	
7	602-Stored purchases - Other supplies		704	712	720	728	736	744	752	760 🗖	768	141	0	
8	6011-Materials (or group) A		1	2	3	4	5	6	7	8	9			
9	6012-Materials (or group) B		13	14	15	16	17	18	19	20	21			
20	6017-Supplies A, B, C,		25	26	27	28	29	30	31	32	33			
21	601-Stored purchases - Raw materials (and supplies)		39 🗖	42	45	48	51	54	57	60 🗖	63	0	0	
22	60-Purchases		900	912	924	936	948	960	972 <sup>r</sup>	984	996	141	0	
22														
-	New York Paris (+)													

#### **New York**

Have all the accounts to be inputed. So that for instance the subtotal account 6022 (in K12) is the sum of 5 others cells.

	5	6021-Consumable materials		167	168	169	170	171	172	173	174	175	11
	6	60225-Office supplies		177	178	179	180	181	182	183	184	185	23
	7	60221-Fuels											- 1
	8	6022-Consumable supplies	r -	177	178	179	180 🗖	181	182	183 🗖	184 🗖	A 85	24
	9	60265-Unidentifiable recyclable packaging		181	182	183	184	185	186	187	188	189	
	10	60267-Mixed-use packaging		145	146	147	148	149	150	151	152	153	
	11	6026-Packaging		326	328	330	332	334	336	338	340	342	0
	12	602-Stored purchases - Other supplies		670	674	678	682	686	690 🗖	694 🗖	698	702	35
	13	6012-Materials (or group) B		161	162	163	164	165	166	167	168	169	
	14	601-Stored purchases - Raw materials (and supplies)		161	162	163	164	165	166	167	168 🗖	169	0
<b>D</b> 1	15	60-Purchases		988	994	1 000 1	006 1	012	1 018 1	1 024	1 030	1 036	35
Paris	16												
	-	🕨 New York 🛛 🗛 🕀										1	
report.The	n	b less account ha the same subtota 2 others cells.											

Paris Forecast Q4 input template

=K6+K7

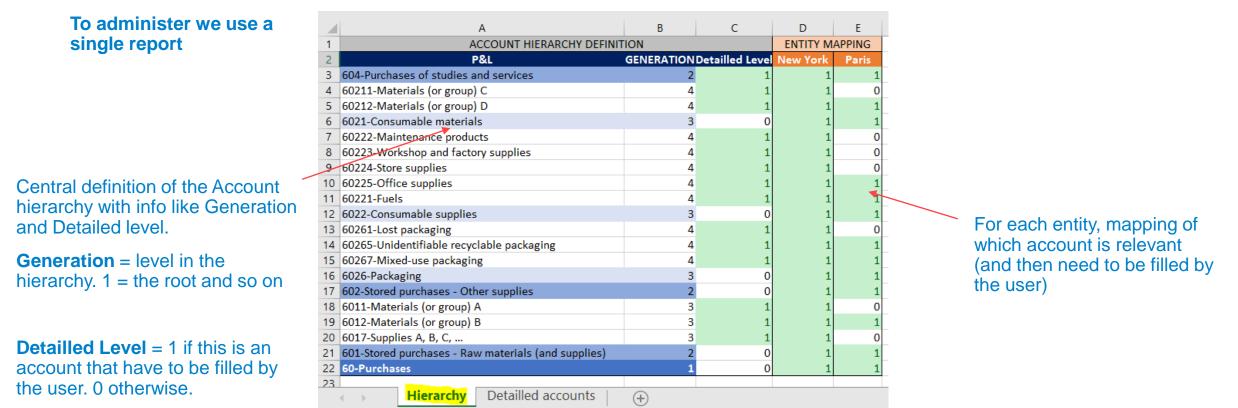
- I X V

Comfort zone High level of dynamicity (format and size), need of dynamically generating and pasting Excel formulas.

January February March April May June July Aug

# 14. Dynamic formatting via Reporting + dynamic generation of formulas to paste into formatted output

Advanced example showing dynamicity at every step. Only in Alteryx...



**It means that everything as to be generated dynamically:** Number of entity, number of rows per entity, organization of the Account hierarchy, Number of subtotals, Excel formulas of subtotals and range where to put those formulas... This is why Alteryx is so powerful.

## 14. Dynamic formatting via Reporting + dynamic generation of formulas to paste into formatted output

Advanced example showing dynamicity at every step. Only in Alteryx...

You dynamically generate a template for each entity (dynamic number of rows + formatting)

2	P&L	January	February	March	April	May	June	July	August	September	October	November	Decembe
3	604-Purchases of studies and services	157	158	159	160	161	162	163	164	165			
4	60211-Materials (or group) C	37	38	39	40	41	42	43	44	45			
5	60212-Materials (or group) D	49	50	51	52	53	54	65	56	57			
6	6021-Consumable materials												
7	60222-Maintenance products	73	74	75	76	77	78	79	80	81			
8 9	60223-Workshop and factory supplies	85	86	87	88	89	90	91	92	93			
9	60224-Store supplies	97	98	99	100	101	102	103	104	105			
0	60225-Office supplies	109	110	111	112	113	114	115	116	117			
1	60221-Fuels												
2	6022-Consumable supplies												
13	60261-Lost packaging	121	122	123	124	125	126	127	128	129			
4	60265-Unidentifiable recyclable packaging	133	134	135	136	137	138	139	140	141			
15	60267-Mixed-use packaging												
6	6026-Packaging												
7	602-Stored purchases - Other supplies												
8	6011-Materials (or group) A	1	2	3	- 4	5	6	7	8	9			
9	6012-Materials (or group) B	13	14	15	16	17	18	19	20	21			
0	6017-Supplies A, B, C,	25	26	27	28	29	30	31	32	33			
21	601-Stored purchases - Raw materials (and supplies)												
2													
3						_							



e	Entity	P&L	Starting Column	Ending Column	Excel Row Number	Output Ligne	M	M+1
1	New York	6021-Consumable materials	В	M	6	.\Output\14 Output Sub Totals.xlsx   New York\$B6:M6	= B4 + B5	=C4+C5
2	New York	6022-Consumable supplies	В	M	12	.\Output\14 Output Sub Totals.xlsx   New York\$B12:M12	= B7 + B8 + B9 + B10 + B11	=C7+C8+C9+C10+C11
3	New York	6026-Packaging	В	M	16	.\Output\14 Output Sub Totals.xlsx   New York\$B16:M16	=B13+B14+B15	=C13+C14+C15
4	New York	602-Stored purchases - Other supplies	В	M	17	.\Output\14 Output Sub Totals.xlsx   New York\$B17:M17	=B6+B12+B16	=C6+C12+C16
5	New York	601-Stored purchases - Raw materials (an	В	M	21	.\Output\14 Output Sub Totals.xlsx   New York\$B21:M21	=B18+B19+B20	=C18+C19+C20
6	New York	60-Purchases	В	M	22	.\Output\14 Output Sub Totals.xlsx   New York\$B22:M22	=B3+B17+B21	=C3+C17+C21
7	Paris	6021-Consumable materials	В	M	5	.\Output\14 Output Sub Totals.xlsx   Paris\$B5:M5	= B4	=C4
8	Paris	6022-Consumable supplies	В	M	8	.\Output\14 Output Sub Totals.xlsx   Paris\$B8:M8	= B6+B7	=C6+C7

<sup>3</sup> 

You paste the subtotal formulas in the previous dynamically generated templates.

Then when filling a cell manually the subtotal are automatically calculated in Excel.

	A	В	С	D	Е	F	G	Н	1	J	K	L	М
1	Paris Forecast Q4 input	templa	ate										
2	P&L	January	February	March	April	May	June	July	August	September	October	November	December
3	604-Purchases of studies and services	157	158	159	160	161	162	163	164	165			
4	60212-Materials (or group) D	167	168	169	170	171	172	173	174	175	11	12	
5	6021-Consumable materials	<b>1</b> 67	168	169	170	171	172	173	174	175	11	12	0
6	60225-Office supplies	177	178	179	180	181	182	183	184	185	23	27	
7	60221-Fuels										1		_
8	6022-Consumable supplies	<b>7</b> 177	178	179	180	181	182	183	184	85	24	27	0
9	60265-Unidentifiable recyclable packaging	181	182	183	184	185	186	187	188	189		3	
10	60267-Mixed-use packaging	145	146	147	148	149	150	151	152	153			
11	6026-Packaging	326	328	330	332	334	336	338	340	342	0		
12	602-Stored purchases - Other supplies	670	674	678	682	686	690 <sup>•</sup>	694	698	702	35	42	0
13	6012-Materials (or group) B	161	162	163	164	165	166	167	168	169			
14	601-Stored purchases - Raw materials (and supplies)	<b>7</b> 161	162	163	164	165	166	167	168	169	0	0	0
15	60-Purchases	988	994	1 000	1 006	1 012	1 018	1 024	1 030	1 036	35	42	0
16													
4	New York Paris 🕀									E 4			

### THANK YOU

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