Project Management (PS)

This case study explains the project management process in detail and thus fosters a thorough understanding of each process step and underlying SAP functionality.

Product

SAP S/4HANA 2022 Global Bike

Fiori 3.0

Level Beginner

Focus Project Management

Authors

Martin Wassmann Bret Wagner Stefan Weidner

Version

4.2

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MOTIVATION

In Project Management, a simple cost project will be created, which will be used to plan and control the development of an ultra-light racing bike.

The project will be structures using a work breakdown structure (WBS) and network activities. In the Execution phase we will post actual dates and actual costs on activities and WBS elements.

PREREQUISITES

Before you use this case study, you should be familiar with navigation in the SAP system.

NOTES

This case study uses the Global Bike data set, which has exclusively been created for SAP UA global curricula.







Process Overview

Learning Objective Understand and execute an integrated project planning. Time 140 Min.

Scenario To edit a complete project planning process, you will take different roles in Global Bike, e.g. Production Supervisor and Cost Accountant. Overall, you will be working in the Project Management (PS) and Financial Accounting (FI) departments.

Employees involved	Jun Lee (Production Manager)
	Jermain Kumins (Shop Floor Worker)
	Silvia Cassano (Controller)
	Jamie Shamblin (AR Accountant)
	Jamie Shamblin (AR Accountant)

At the beginning of your project you assign WBS elements, activities and milestones at Project Builder. Also, you assign milestones to your project.

In the last few steps, you create a creditor invoice for your business partner, who acts as an intermediary for the test driver and you have to pay for the entire project.



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Step 1: Create Project

Task Create a new project.

Short Description Use the SAP Fiori Launchpad to create a new project.

Name (Position) Jun Lee (Production Manager)

This is the Project structure of cost project P/20##, which consists of WBS elements, activities, and milestones.



We will use the project builder to create a project "Development of Ultralight Bike". The project consists of a work breakdown structure and network activities.

Note A Work Breakdown Structure (WBS) is a model of a project and shows the required project activities in a hierarchical form. The WBS forms the basis for all subsequent planning tasks in the project. Emphasis is placed on planning, analysis, description, control, monitoring of costs, basic dates, and the budget. Costs, dates, resources, and payments are planned using the activities extrapolated to specific WBS elements. Time 15 min

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Project Builder: Options			×
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Confirm your entries by using the \checkmark button.

To create the project P/2###, select $\square \lor$ and choose *Project*.

Note Projects are tasks that have the following characteristics. Projects are usually complex and unique and involve a high degree of risk. They have precise targets that are agreed on between the contractor and the sold-to party. Projects are limited in duration, are cost and capacity intensive and involve several departments. They are subject to specific quality requirements and are of strategic significance for the business carrying them out. Projects are an integral part of the commercial processes of a business. Before you can control all the tasks that occur as part of project execution, you need a project-specific organizational form that should be in a position central to the user departments involved.

In the screen *Project Builder* enter in the field Project def. **P**/2###. Remember to replace ### with your three-digit number, e.g. 003 if your number is 003. For Text (unlabeled) enter **Development of Ultralight Bike** ### (**I**) and select in Project Profile **DE01000 Cost projects** (**Europe**).

P/2###

Development of Ultralight Bike ###(I)

Cost projects (Europe)

Projec	t def.: P/24	-00		Development of Ultral	ight Bike 400 (I)	
1	Detail: 😤					
Overvi	ew(s): 🔺					
Basic Data	Control	Administration	Long Text	Collect. PR Indicators	User Fields	
Basic Data	Control	Administration	Long Text	Collect. PR Indicators	User Fields	

Confirm your entries by pressing Enter. Click on the A WBS Element Overview icon to create new WBS elements. Fill in the following data in the Project Builder screen. Please notice that the system will deduce the project number from the entry. Special characters such as double quotes can be configured in the SAP customizing menu.

WBS element	Description	PE	Acct
P/2###	Development of Ultralight Bike	$\mathbf{\nabla}$	$\mathbf{\nabla}$
P/2###-1	Engineering	N	\checkmark
P/2###-2	Prototype	\mathbf{N}	V
P/2###-3	Testing	N	\checkmark
P/2###-4	Small series production	$\mathbf{\nabla}$	\mathbf{N}
P/2###-5	Release to mass production	\mathbf{N}	V

Again, confirm your entries by pressing Enter, additional fields are automatically added by the system and a project structure is created in the left pane.

	9		1.5	Harden Harris					
Menu - 🖗 🛋 🗸 🛣 🕷	E Services for Object	1							
	93 88	Identification and vi	iew selection						
Project Structure: Description	(clearly)	Ptoject	def: P/2400	Development of Utbelight Bike 400 (/)	5				
✓ ▼ Development of Utraligte Bike 400 db	P-2400	0	etzil: 🕎						
🗢 🔺 Development of Utralight Bile	P12400	Overvie	w(s) 🔼 🔳						
A transmag	P12400-1								
A Prizotype	P17400-2	Real Party	Parameters Research	ing Control Contrology					
A Testing	Pi2400-3	Basic Liens	Culturardu unchrunne	oto conta contato					
A Small series production	P(2400-4	S. In	WRS almost	Description	Short ID	Pio	Pu)	 	No.
 Fighteen to serve an destine 	P(2400-5		and the second s	State Prov	0.0100		1.4	 1.00	
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			10/54040-2	P.Barata M.	NA7400-1	01		1	
Persone to mass production									4
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Persone to mass propactory		2 2	P/2600-2 P/2400-3	Prototype Testing	P/2480-2 P/2480-3	01			e.
 Versione in mass production 			P/2000-2 P/2400-3 P/2400-4	Prototype Testing Smait series production	P/2400-2 P/2400-3 P/2400-4	01 01 01			1

Note Operative indicators such as the above ("PE" and "Acct") control whether the WBS elements can be used for cost planning (Planning Element) and cost account (Account Assignment possible) purposes.

The hierarchy graphic can be used to edit the project as well. Please note, that the derivation of WBS element structure has determined the hierarchy from the number of the WBS elements. Naturally, this works only for numbers, which reflect a hierarchical order and are customized by a so-called number mask.

To derive the WBS structure the number of the WBS elements choose in the pull-down menu Menu \blacktriangleright Project \blacktriangleright Derive structure \triangleright Execute. Go to the tab Responsibilities to assign responsible cost centers to all WBS elements.

To assign responsible cost centers to the WBS elements, select the *Responsibilities* tab. Enter the following data in the Responsible cost center column.

WBS element	Resp.cost cntr
P/2###	EURD1000
P/2###-1	EURD1000
P/2###-2	EURD1000
P/2###-3	EUQM1000
P/2###-4	EUPR1000
P/2###-5	EUQM1000

Confirm your entries with enter. The system automatically adds the associated controlling area EU00.

s	Lev	WBS element	Pe	er	Re: Ap	Apj	CA	Resp. cost cntr
(E)	1	P/2400					EUOO	EURD1000
	2	P/2400-1					EU00	EURD1000
	2	P/2400-2					EU00	EURD1000
	2	P/2400-3					EU00	EUQM1000
	2	P/2400-4					EU00	EUPR1000
	2	P/2400-5					EU00	EUQM1000

Click on the home icon SAP	to return to the Fiori Launchpad Overview.	



Task Change the project.			Time 10 min
Short Description Use the the task above.	e SAP Fiori Launchpad	to change the project form	
Name (Position) Jun Lee	(Production Manager)		
The project P/20## will be of the WBS elements). Act You can plan dates, resource	enhanced by network a ivities describe the proc ces and costs through ne	ctivities to detail the tasks cess flow of the project. etwork activities as well.	
To change a project, use <i>Manager</i> the app <i>Project B</i>	in the <i>Project System</i> a Builder.	rea in the role Production	Fiori App
	ni Santa di basingkanan		
	Project Builder		
	品		
Under Worklist: Descripti	on you will find your	project P/2### under <i>Last</i>	P/2###
Projects Processed. Doubl	e-click on the project to	open it.	
★ Worklist	Templates		
Worklist: Descript	ion	Project object	
> ★ Projects			
✓ ☐ Last Proje	ects Processed	P/2400	
L Develo			
Note Alternatively, you ca	n also reopen the projec	t via 🖾.	
In the <i>Project Structure</i> Development of Ultralight	e: Description area, s Bike.	select the WBS element	

Project Structure: Description	Identification
✓	P/2400
🗸 🔺 Development of Ultralight Bike	P/2400
Lingineering	P/2400-1
Prototype	P/2400-2
Testing	P/2400-3
Small series production	P/2400-4
Release to mass production	P/2400-5

Choose the Activity Overview icon. Enter the following data:

		Normal dura-	Work in	
Activity	Description	tion in days	hours	Work center
0010	General concept	10	80	DVLP1000
0020	Engineering of carbon frame	5	40	DVLP1000
0030	Engineering of steering fork	2	20	DVLP1000
0040	Purchasing of components	1	5	PROC1000
0050	Production of carbon frame	2	30	ASSY1000
0060	Production of steering fork	1	10	ASSY1000
0070	Prototype assembly	8	60	ASSY1000
0080	Wind channel test	1	8	INSP1000
0090	Stiffness test	1	6	INSP1000
0100	Testing acceleration dynamics	1	5	INSP1000
0110	Testing steering precision	1	8	INSP1000
0120	Small series production	10	100	ASSY1000
0130	Final test (internal)	5	50	INSP1000
0140	Release to mass production	1	3	INSP1000

Confirm your entries by pressing Enter.

Int. I	Process	ing Ext. Processing Prim. Costs Total						
(@		80 + 60 / 1 - 60	∞)⊗]5	<u>)</u>	Catal	og		
	Acti	Description	Norma	No	Work	Un	Work Ce	Plant
	0010	General concept	10	DAY	80.0	HR	DVLP1000	HDOO
	0020	Engineering of carbon frame	5	DAY	40.0	HR	DVLP1000	HD00
	0030	Engineering of steering fork	2	DAY	20.0	HR	DVLP1000	HDOO
	0040	Purchasing of components	1	DAY	5.0	HR	PROC1000	HDOO
	0050	Production of carbon frame	2	DAY	30.0	HR	ASSY1000	HDOO
	0060	Production of steering fork	1	DAY	10.0	HR	ASSY1000	HD00
	0070	Prototype assembly	8	DAY	60.0	HR	ASSY1000	HDOO
	0080	Wind channel test	1	DAY	8.0	HR	INSP1000	HDOO
	0090	Stiffness test	1	DAY	6.0	HR	INSP1000	HDOO
	0100	Testing acceleration dynamics	1	DAY	5.0	HR	INSP1000	HDOO
	0110	Testing steering precision	1	DAY	8.0	HR	INSP1000	HD00
	0120	Small series production	10	DAY	100.0	HR	ASSY1000	HDOO
	0130	Final test (internal)	5	DAY	50.0	HR	INSP1000	HDOO
	0140	Release to mass production	1	DAY	3.0	HR	INSP1000	HDOO

Scroll to the right in the table to the WBS element column. All activities up to now have been assigned to the WBS element P/2###, since this WBS element was selected at the beginning.

Enter the following values to distribute the activities to the corresponding WBS elements. Be sure to replace ### with your three-digit number.

Activity	WBS element
0010	P/2###
0020	P/2###-1
0030	P/2###-1
0040	P/2###-2
0050	P/2###-2
0060	P/2###-2
0070	P/2###-2
0080	P/2###-3
0090	P/2###-3
0100	P/2###-3
0110	P/2###-3
0120	P/2###-4
0130	P/2###-5
0140	P/2###-5

Confirm your entries with Enter. The project structure updates and the network activities can be seen under the associated WBS elements.

< SAP Project Builder:	Project P/2400	Search In: "Apps"	
Menu 🗸 🚱 🖹 📓 🔛 Service	es for Object 🗸		
	R () 🖉 🙈	Identification and view selection	
Project Structure: Description	Identification	WBS Element: P/2400	Development of Ultral
 Development of Ultralight Bike 400 (I) 	P/2400	Detait	
Development of Ultralight Bike	P/2400	Overview(s): 🔛 💌 🚱 😰	
 Engineering 	P/2400-1		
Engineering of carbon frame	%00000000001 0020	let Properties Ext Propertied Drive Costs Total	an i
Engineering of steering fork	%00000000001 0030	The Processing CAX, Processing Phillic Costs Tota	N
V 🔺 Prototype	P/2400-2		
Purchasing of components	%00000000001 0040		
Production of carbon frame	%00000000001 0050	Acti Description	WBS Elemen
Production of steering fork	%00000000001 0060	0010 General concept	P/2400
Prototype assembly	%00000000001 0070	0020 Engineering of carbon frame	P/2400-1
Testing	P/2400-3	0030 Engineering of steering fork	P/2400-1
Wind channel test	%00000000001 0080	0040 Purchasing of components	P/2400-2
Stiffness test	%00000000001 0090	0050 Production of carbon frame	P/2400-2
 Testing acceleration dynamics 	%00000000000000000000000000000000000000	0060 Production of steering fork	P/2400-2
 Testing steering precision 	%00000000000000000000000000000000000000	0070 Prototype assembly	P/2400-2
✓ ▲ Small series production	P/2400-4	0080 Wind channel test	P/2400-3
Small series production	%00000000001 0120	0090 Stiffness test	P/2400-3
Release to mass production	P/2400-5	0100 Testing acceleration dynamics	P/2400-3
Final test (internal)	%00000000000 0130	0110 Testing steering precision	P/2400-3
Release to mass production	%00000000001 0140	0120 Small series production	P/2400-4
🗸 🚪 Development of Ultralight Bike	%00000000001	0130 Final test (internal)	P/2400-5
General concept	%00000000001 0010	0140 Release to mass production	P/2400-5

Navigate to the *External Processing* tab to create external processing operations. Maintain a service operation with the following data:

Note You use external processing operations to determine which services are required from other companies for the execution. External processing operations are handled by the purchasing department.

In-house processing operations, on the other hand, determine the output of machines and/or people to be performed. You can evaluate the capacity

utilisation at the workplaces, schedule capacities differently if necessary and distribute work among the employees.

In the Activity field enter **0045** and activate the **Service** Field and enter **Outsourcing gear** in Description.

	Int. Pro	ocessing	Ext. Processing Prim. Costs Tota	ι		
0			>	🔦 🖈 🖾 📑 Catalog		
	Acti	Service	Description	Info rec.	Purch	Pri
	0045		Outsourcing gear		DE00	
	0160				DE00	

Confirm your entries by pressing Enter. In the *Service Specification: Ext. Specs f. Task List Maintain* screen enter in the first line 10, in the field short text **Engineering**, choose for Quant. **1**, for Unit **EA** and in Gross price **2000**.

In the second line 20 enter for the short text enter **Ext. production**, choose **1** for Quant., **EA** for Unit and enter Gross price **3000**.

E	Services							
	Line	Del	Service No.	Short Text	Quantity	Un	Gross Price	Crcy
	10			Engineering	1	EA	2000	EUR
	20			Ext. production	1	EA	3000	EUR

Confirm your entries with Enter. Go back to the *Project Builder: Project* P/2### screen by pressing once

On the *Prim. Costs* Tab enter for Activity **0135**, enter **Performance test by professional drivers** in Description, for Amount **10000** and **6300000** for Cost Elem.



0045 Service Outsourcing gear

> Engineering 1 EA 2000

Ext. production 1 EA 3000

0135 Performance test by professional drivers 10000 6300000

_	_	_	_	_	
_ 10					
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_ 10					

Task Display the project ne	twork graph.	Time 5 min
Short Description Use th network graph.	e SAP Fiori Launchpad to display the project	
Name (Position) Jun Lee (H	Production Manager)	
To display a project network <i>Production Manager</i> the ap	k graph, use in the <i>Project System</i> area in the role p <i>Project Network Graph</i> .	Fiori App
	Project Network Graph	
Enter P/2### in the Proj network is automatically loa C SAP Project Network Gra Standard* ~	ect Definition search field. The corresponding aded by the system.	P/2###
Project Definition: W	/BS Element: Network:	
Development of Ultralight Bike		
Basic Dates View 💉 No Group	Ding No Highlighting Search for Q R Image: Optio General concept Earliest Start / Finish: 08/08/2023 / 08/17/2023 Latest Start / Finish: 08/08/2023 / 08/17/2023 Processing Time: 10.0 TAG Total / Free Float: 0 TAG / 0 TAG Control Key / Description:PS01 / Network - Internal processing 0020 Engineering of carbon frame Earliest Start / Finish: 08/08/2023 / 08/12/2023 Latest Start / Finish: 08/08/2023 / 08/12/2023	

The interface offers several ways to interact with the network. For example, you can identify loops that have not been noticed in the Project Builder and look at the critical path of the project. Activities of the critical path are highlighted with orange color Basic Critical.

Further explanations of the graphic can be found in the legend \blacksquare .

You can see that several tasks were created in the previous step, but they do not yet have any relationships to each other. As a result, all operations currently start at the same time.

Click on the home icon **See** to return to the Fiori Launchpad Overview.



Step 4: Create Relationships

Task Create the relationship structure.	Time 15 min
Short Description Use the SAP Fiori Launchpad to create the relationship structure.	
Name (Position) Jun Lee (Production Manager)	
So far, the activities are all assigned to the top WBS element. In addition, there are no relationships between activities, i.e. activities so far begin all to the same time. This will be changed now.	
To create the relationships, use in the <i>Project System</i> area in the role <i>Production Manager</i> the app <i>Project Builder</i> .	
Project Builder	Fiori App
品	
Under <i>Worklist: Description</i> you will find your project P/2 ### under Last Projects Processed. Double-click on the project to open it.	P/2###
Note Alternatively, you can also reopen the project via 🖾.	
Activities are linked by relationships to establish a chronological order.	
In the following, we create the relationship structure as shown in the screen below. The graphic shows schematically the network plan for the development of the ultra-light racing bike. It is intended to serve as a template for the next step when you assign the activities.	
$10 \xrightarrow{45}{50} \xrightarrow{50}{50} \xrightarrow{70}{50} \xrightarrow{90}{120} \xrightarrow{130}{130} \xrightarrow{140}$	

The following example will show to enter the relationships between activities 10, 20 and 50. Please use the same procedure to create all relationships of the image above.

As you can see in the image above as well as in the snippet below, activity number 20 is the successor of activity number 10. In addition, activity number 50 is the successor of number 20. Please keep in mind that only direct relationships between two activities will be created. For example, no relationship between activity 10 and 50 will be entered.



In the *Project Structure: Description* area, select the General Concept activity.

Project Structure: Description	Identification
✓	P/2400
🗸 🔺 Development of Ultralight Bike	P/2400
✓	4000028
General concept	4000028 0010
Outsourcing gear	4000028 0045

Use the 📼 Relationship Overview button.

Since we only care about the activities 10, 20 and 50, we will only enter **20** in activity and mark it as successor by selecting the **Scs** flag.

Note However, keep in mind that later the relationships to operations 30, 40 and 45 will also be maintained in the same way for operation 10.



Confirm your entries by pressing enter.

50

Scs

In the *Project Structure: Description* area, select the *Engineering of carbon frame* operation and switch to the relationship overview again.

In this screen you can see that activity 10 was automatically added as a predecessor (flag Scs isn't selected).

Please enter activity **50** and mark it as successor of activity 20 by selecting the **Scs** flag and confirm your entries by pressing enter.

		Activity:	4000028		00	20 Er	ngineerin	g of ca	rbon t	frame	6
		Detail:									
	Over	view(s):	-	۰ (ی	2 4						
Mix	ed	Predeces	s Suc	cessor							
Mix	ed I	Predeces	s Suc	cessor							
Mix	ed I	Predeces	s Suc	cessor							
Rel	ed I	Predeces	s Suc	cessor							
Rel	ed I B ationsh Act.	Predeces	s Suc	Scs	* ту.	Intervl	Un.	Ti	T	Operation Short Text	
Rel	ationsh Act. 0010	Predeces	s Suc	Scs	* Ty. FS	Intervl	Un.	Ti	T	Operation Short Text General concept	

In the *Project Structure: Description* area, select the activity *Production of carbon frame* and switch to the Relationship Overview again.

Here, you will notice that activity 20 has automatically been entered as the predecessor.

Now maintain the successor activities for all the remaining activities, as indicated in the illustration above with green activities. Do not forget to also select **Scs** for these activities if they are successor activities.

Use the Save icon Save to save your entries.

Project P/2400 is being changed

Click on the home icon **See** to return to the Fiori Launchpad Overview.

Task Display the project ne	Task Display the project network graph.							
Short Description Use the network graph.	ne SAP Fiori Laund	chpad to display the project						
Name (Position) Jun Lee (A	Production Manager)						
To display a project networ <i>Production Manager</i> the ap	k graph, use in the P op Project Network C	<i>Project System</i> area in the role <i>Graph</i> .	Fiori App					
	Project Network Graph							

Enter **P**/2### in the *Project Definition* search field. The corresponding network is automatically loaded by the system.

P/2###

< SAP Project Network Graph \sim		٩	1	œ
Standard [*] ~				Ľ
Project Definition: WBS Element	Network:			
Development of Ultralight Bike	6			
Basic Dates View 🗸 No Grouping	VINo Highlighting VI Search for A Q, 🐰 📳 Detect Loop Q, 75% Q	١.		53
Control Connent Connent Control Connent Connent Units Start Frank Description Frank Processing Time 10,9 TKG Tard / Free Tolat Control Roy / Disorption:PBB1 (Network - Internal processing	Exhibit Start / Franzis 00/27/2023 / 00/20023 / 00	(65) 24/2 (65) 74/2 2.6 1 TAG ? 6 1 process	10223 10223 TAG taby	
	C0200 Engliseuling of aberling huk Ended Stand / Freih Set202922 (08259232) Lefted Stand / Freih Set20292 Lefted Stand Lefted Stand Set20292 Lefted Stand Lef	0820/2 0824/2 1.0 1 IAG / 4 1 process	1022 1023 TAG TAG ning	

Due to the maintenance of the relationships, the project network graph has now changed accordingly. Activity 0010 | General Design now has four successor activities linked by arrows.

Click on \square to adjust the project network to your window size or use \bigcirc to reduce the view.

		A STATUS	Santi Malan Antoni Malan Antoni Malan										
		+	Marco Arton Marco Arton Marco Marco Marco	• 1995		6		Anna anna					
		•		+ 100 100 000000 - 100000000 - 10000000000	Alter and a second		-				212.21		and and the second
	-							-		Construction of the local division of the lo	1967		
								2001 B					
The 1	proje	ct ne	etwor	k nov	v cor	ntains	the s	same	arrang	ement	stru	cture	as the
graph	ic in	the	previ	ous st	ep. O	nly th	e arra	ange	ment of	indivi	dual	conr	nections
can	vary.	Fu	rtheri	nore,	you	can	see	the	critical	path	of	the	project
Ba	asic C	ritical											

Click on the home icon **See** to return to the Fiori Launchpad Overview.



Step 6: Assign milestones

Task Assign milestones to activities.	Time 10 min
Short Description Use the SAP Fiori Launchpad to assign milestones to activities.	
Name (Position) Jun Lee (Production Manager)	
In the following step, we assign texts (e.g. a functional specification) to the project. We assign milestones to activities, in order to indicate important project stages.	
To assign milestones to activities, use in the <i>Project System</i> area in the role <i>Production Manager</i> the app <i>Project Builder</i> .	Fiori App
Project Builder	
品	
Under <i>Worklist: Description</i> you will find your project P/2 ### under Last Projects Processed. Double-click on the project to open it.	P/2###
Note Alternatively, you can also reopen the project via 🖾.	
In the <i>Project Structure: Description</i> area, select the WBS element Development Ultralight Bike.	
Project Structure: Description	
✓ ▼ Development of Ultralight Bike 000 (I)	
V 🔺 Development of Ultralight Bike	
✓ I Development of Ultralight Bike	
General concept	
Select 🖻 to switch to the PS Text Overview.	
Enter 01 for ST (first column), PH-###-1 for the description and DE as the language key (TT).	01 PH-###-1 DE

		WBS Eleme	ent: P/2400		
		Det	ail: 🔺		
		Overview	(s): 🖪 🔳 家	7	
	touto				
S	texts				
PS	texts * ST	Text typ	* Description	Т	Π

Confirm the entry with Enter, you can now enter a PS text. Click on \leq to return to the Project Builder main screen.

Note Important project stages can be indicated and described by project milestones. Milestones are assigned either to WBS elements or to activities of the project and fulfill information and documentation purposes but can trigger business processes such as progress reporting or milestone billing in the case of sales projects. In the following, we create three milestones, assigned to activities 0070, 0120, and 0140.

In the *Project Structure: Description* area, select the activity *Prototype* assembly.

Use the
. Milestone Overview icon. For Usage please enter 00004 and by Description enter Completion: prototype.

Acti	vity: 4000028	0070	Prototype assem	bly				
De	tail: 📼							
Overview	/(s): 📳 😂 📀	-						
			and a second					
a :: :: :: •	④ Std. miles	tone	 Milestone 	group	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>			
a 🗜 😤 ⊕ ilestones	(+) Std. mites	tone	⊕ Milestone	group	Ŵ			
à :€ ﷺ ⊕ ilestones Usage Descripti	⊕ Std. miles	tone	① Milestone	group	Actl. date	POC	Fct	Fix. date

Confirm your entries with Enter. In the *Project Structure: Description* area, the milestone is added below the activity. Select the entry in the project structure to open the details of the milestone.

00004 Completion: prototype

🔷 🔺 P	rototype
	Purchasing of components
	Production of carbon frame
	Production of steering fork
× =	Prototype assembly
	Completion: prototype
М Д Те	esting

Complete the milestone data there. Select **Trend analysis**, **Progress analysis** and **Offset to fin**. Leave other fields as they are and confirm your entries with Enter.

Milestone: 10	F	ertigstellung: Prototyp	6
Basic Data Functions	Administr.		
Usage:	90004 Sta	art execution	
Activity:	0070 Prototyp	e assembly	
Usage			Progress analysis
Milestone functions	V	Progress analysis	Perc of compl.:
Release stop ind.		Sales document date	
Trend analysis			Billing plan
			InvoicePercentg:
Dates		Offset	to activity
Fixed date:		00:00:00	atest dates
Actual date:		00:00:00	Ifset to fin.
	<u></u>		

Now assign two other milestones to activities 0120 and 0140 analogously. Make sure not to assign these milestones to the same activity 0070 or, worse, to change the milestone, which you just created. Finally, you should be able to display three milestones in the structure tree on the left side.

To do so, use the following data:

For the activities 0120 enter for Usage **00005** and in Description enter **Completion: small series**. Select **Trend analysis**, **Progress analysis** and **Offset to fin**.

For the activity 0140 (Release to mass production) enter for Usage **00006** and in Description enter **Completion: release**. Select **Trend analysis, Progress analysis** and **Offset to fin**.

00005 Completion: small series Trend analysis Progress analysis Offset to fin

> 00006 Completion: release Trend analysis Progress analysis Offset to fin

Trend analysis Progress analysis Offset to fin

roject Structure: Description	Identification
Development of Ultralight Bike 400 (I)	P/2400
✓ ▲ Development of Ultralight Bike	P/2400
✓ I Development of Ultralight Bike	4000028
General concept	4000028 0010
 Outsourcing gear 	4000028 0045
 Performance test by professional drivers 	4000028 0135
Engineering	P/2400-1
✓	4000028 0020
Completion: small series	11
Engineering of steering fork	4000028 0030
V 🔺 Prototype	P/2400-2
 Purchasing of components 	4000028 0040
Completion: release	12
Production of carbon frame	4000028 0050
Production of steering fork	4000028 0060
 Prototype assembly 	4000028 0070
Fertigstellung: Prototyp	10
✓ ▲ Testing	P/2400-3
📼 Wind channel test	4000028 0080
 Stiffness test 	4000028 0090
 Testing acceleration dynamics 	4000028 0100



Step 7: Release of Project

Task Release of the Project	t.		Time 5 min
Short Description Use the	SAP Fiori Launchpad	to release the project.	
Name (Position) Jun Lee (Production Manager)		
The project will be release activities of the project are execution phase of the pro- projects, only those element near future. The release of subordinate WBS elements release the project definit activities of the project.	ed. The release of the e a precondition for the oject. In productive en- ts will be released which of higher-level WBS of and / or assigned acti- tion, thereby releasing	e WBS elements and / or e posting of actuals, in the nvironments and for large ch are to be executed in the elements will also release vities. In the exercises, we g all WBS elements and	
To release the project, use <i>Manager</i> the app <i>Project B</i>	in the <i>Project System</i> : uilder.	area in the role <i>Production</i>	Fiori App
	Project Builder		
	品		
Under Worklist: Description Projects Processed. Double	on you will find your -click on the project to	project P/2 ### under Last open it.	P/2###
Note Alternatively, you car	also reopen the projec	t via 🗇.	
Choose Menu ► Ed	it 🕨 Status 🕨 Release	to release your project.	Menu bar
The system displays a mess	age that the status for t	he project has been set.	
	Status was set		
Use the Save icon Save to s	ave your entries.		
⊘ Pro	oject P/2400 is being ch	anged	

Click on the home icon SAP	to return to the Fiori Launchpad Overview.

Step 8: Reporting using cost element report

Task Reporting using cost element report.	Time 10 min
Short Description Use the SAP Fiori Launchpad to report by using cost element report.	
Name (Position) Silvia Cassano (Controller)	
By structuring the project using network activities, you have built a quantity structure with internal and external services, which can be totaled as planned costs. When releasing the activities, they are automatically calculated. From now on, planned costs can be evaluated specific to controlling periods (normally months) and specific to calculate elements. The evaluation can be done on a specific activity, but also aggregated to WBS elements and the whole project.	
To report, use in the <i>Project System</i> area in the role <i>Controller</i> the app <i>Project Costs – Actual/Commitment/Total/Planned in CO Area Currency</i> .	Fiori App
Project Costs Actual/Commitment/	
If required, enter in database GL01000 and confirm with \checkmark .	GL01000
Enter profile ×	
★ Database prof.: GL01000	
Enter in the selection screen for Project P/2###, in the Controlling Area choose EU00 , for Plan Version 0 . Enter the current year for From fiscal year and in To fiscal year enter the next year . By From period enter 1 and in to period enter 12 . Please delete all other field entries.	P/2### EU00 0 current year next year 1 12

Menu 🗸 🚯 📄 Data Source 🕄 🖉 Cha	nge DB profile	e) [🔄 Other DB	profile 🚯 Status	000	
Project Management Selections (Other DB pro	file: GL0100	00)			_
Projec	ct: P/2400		to:		
Sales documer	nt:		to:		
WBS Elemen	ıt:		to:		
Network/orde	er:	10	to:		6
Activit	y:		to:	1	Fe
Materials in networ	¥-				
election values	No		ιο.		
election values	a: FU00		10:		
election values Controlling Are	a: EU00		10.		
Selection values Controlling Are Plan Versio From Firson Ver	a: EU00 n: 0		10:		
Selection values Controlling Are Plan Versio From Fiscal Yea To Fiscal Yea	a: EU00 n: 0 ar: 2023		10.		
Selection values Controlling Are Plan Versio From Fiscal Yea To Fiscal Yea	a: EU00 n: 0 ar: 2023 ar: 2024		10.		L L
Selection values Controlling Are Plan Versio From Fiscal Yea To Fiscal Yea From Perio To Pario	a: EU00 n: 0 ar: 2023 ar: 2024 d: 1 d: 12		10.		
Selection values Controlling Are Plan Versio From Fiscal Yea To Fiscal Yea From Perio To Perio	a: EU00 n: 0 ar: 2023 ar: 2024 d: 1 d: 12		10.		
Selection values Controlling Are Plan Versio From Fiscal Yea To Fiscal Yea From Perio To Perio Selection groups	a: EU00 n: 0 ar: 2023 ar: 2024 d: 1 d: 12				
Selection values Controlling Are Plan Versio From Fiscal Yea To Fiscal Yea From Perio To Perio Selection groups Cost Element Grou	a: EU00 n: 0 ar: 2023 ar: 2024 d: 1 d: 12 p:				

Note The project will usually last until the next year (corresponding to the network activity durations and their relationships). Since a part of planned costs will be assigned to the next year, you would only show a part of the costs when selecting only the current year.

Click on Execute to get an overview of the cost types used. These are divided into actual, commitment, total and planned costs.

Act/Com/Total/Plan		As of::08/08/2023	3	Page:	2 / 6
				Column	1 / 4
Object Name of Person Resp.	PRJ P/246	90	Development of	Ultra	
From Fiscal Year From Period	2023 1	To Fiscal Year To Period	2024 12		
Cost Elements		Actual	Commitments	Total	Plan
6300000 Other opera 6991000 Cost of Lab 8000000 Labor 8012000 Prod. Wages 8013000 Admin. Over 8014000 Sales Overh	ating expenses bor s Overhead rhead nead		5,000,00	5,000.00	10,000.0 5,000.0 21,250.0 5,737.5 4,048.1 5,397.5
* All Cost Elements			5,000.00	5,000.00	51,433.1

Note For the network activities, you specified work centers and the amount of work (in units of hours). As for the primary cost activities, you entered the costs directly. These costs are determined by network costing and will be displayed as aggregated costs for WBS elements and for the project definition. The servicing activity resulted in a purchase requisition for the purchasing department, which is displayed as commitment (value type, which displays a future obligation)

Click on the home icon **See** to return to the Fiori Launchpad Overview.



Step 9: Analyze Project Structure

Task Analyze the project structure.	Time 5 min
Short Description Use the SAP Fiori Launchpad to analyze the project structure.	
Name (Position) Jermain Kumins (Shop Floor Worker)	
Using the structure information system, you can analyze the project structure as well as dates, costs and revenues (plan and actuals) of one or many projects. The structure information system does not only display data, but you can edit the project from there or post activity confirmations.	
To analyze the project structure, use in the <i>Project System</i> area in the role <i>Shop Floor Worker</i> the app <i>Structure Overview</i> .	Fiori App
Structure Overview	
If required, enter in the PS Info Profile filed GL01000 and confirm with \checkmark .	GL01000
In the selection screen enter for Project $P/2###$ and leave the other fields as they are.	P/2###
< SAP Project Info System: Structure Initial Screen Search In: "Apps"	
Menu 🗸 🗒 Save) 🔄 🕤 🕤 🖉 Database Profile) 🔄 PS Info Profile 🖾 Sel. vers. 🚯 Status	
Project Management Selections (PS Info profile: GL01000)	
Project: P/2400 to:	
Sales document: to:	
WBS Element: to: 1 Network/order: to: 1 Activity: to: 1 Materials in network: to: 1	
Additional WBS element criteria	
Level: 1 to: 99	

Use Execute for the report.					
< SAP Project Info System: Str	ucture Initial Scr	een		Se	arch In: "Apps"
Menu \sim \bigcirc \bigcirc Set. vers.) \mathbb{F}_{B} Without Tree					
× < Q @ - B - B B			~) <mark>(* 2 ~</mark>) [1 68 🖉	🛃 🔂 Documents
Project Structure Overview	Title	BasicStartD	Basic finish	Actual start	Actual finish
Development of Ultralight Bike 400 (I)	P/2400	08/08/2023			
Development of Ultralight Bike	P/2400	08/08/2023			
PH-400-1	FuncDesc				
Development of Ultralight Bike	4000028	08/08/2023			
Engineering	P/2400-1				
> Engineering of carbon frame	4000028 0020				
Engineering of steering fork	4000028 0030				
Prototype	P/2400-2				
The standard layout shows title texts and the basic and displayed, e.g. to evaluate overview can be updated at Click on the home icon	the project actual date the curre any time by to return	structure s. Howev ent costs y clicking to the Fi	e overvie ver, addit . Furthe g on 2. ori Laun	w, the co ional col rmore, t chpad O	orresponding umns can be he structure verview.

Step 10: Further scheduling of Project

Task Further scheduling	of the Project.			Time 10 min
Short Description Use the project.	e SAP Fiori Launchpad fo	or further sch	eduling of the	
Name (Position) Jun Lee	(Production Manager)			
In our project, dates have activities. Network sched activities and their relati aggregated to the WBS ela They can be further aggre the higher level / top-leve	been already planned by uling works in principle onships. The scheduled ements (to which the activ egated within the work bu I WBS elements).	the schedulin using the du dates of the ities are direc reakdown str	ng of network rations of the activities are ctly assigned). ucture (i.e. to	
To change your project, u Manager the app Project	se in the <i>Project System</i> a Builder.	area in the ro	le Production	Fiori App
	Project Builder			
	品			
Under <i>Worklist: Descript</i> Projects Processed. Doub	<i>tion</i> you will find your ple-click on the project to o	project P/2## open it.	# under Last	P/2###
Note Alternatively, you c	an also reopen the project	via 🗹.		
In the Project Structure: 1 by professional drivers (0	Description area, select the 135).	e activity Per	formance test	
Project Structure:	Description	Identification		
🗸 🛣 Developm	ent of Ultralight Bike 400 (I)	P/2400		
V 🔺 Develo	oment of Ultralight Bike	P/2400		
PH-4	00-1	PH-400-1		
V 🗷 Deve	lopment of Ultralight Bike	4000028		
🚍 G	eneral concept	4000028 0010		
	utsourcing gear	4000028 0045		
P(rformance test by professional drivers	4000028 0135		
V 🔺 Engi	neering	P/2400-1		

Change the Amount in **8000 EUR** and select **Flexible**. Leave the other fields as they are.

Activity:	4000028	0135 Perform	ance test by professio	nal drivers		5
Detail:						
Overview(s):		കളിമ				
Overview(3).						
-			Parts - Barrison			
Costs Dates	Assignments	Long lext User	netas Progress			
Costs						
System	Status: REL SI	ETC	(i) *	Control Key:	PS03	Subntwk exis
System WBS E	Status: REL SI	ETC	*	Control Key:	PS03	Subntwk exis Project Sum.
System WBS E	Status: REL Silement: P/2400	ETC	Far	Control Key:	PS03	Subntwk exis Project Sum.
System WBS E Company	Status: REL SI tement: P/2400 y Code: DE00	ETC	Fac	Control Key:	PS03	Subntwk exis Project Sum.
System WBS E Company	Status: REL Si lement: P/2400 y Code: DE00 * Plant: HD00	ETC	Fac	Control Key: [tory Cal. ID: [g Cost Cntr: [PS03	Subntwk exis Project Sum.
System WBS E Company	Status: REL Si lement: P/2400 y Code: DE00 * Plant: HD00 xmount:	8000 EUR	Image: Second s	Control Key: [tory Cal. ID: [g Cost Cntr: [pst Element: [PS03 01 01 01 01 01 01 01 01 01 01 01 01 01	Subntwk exis Project Sum.
System WBS E Company A Distrib	Status: REL Si lement: P/2400 y Code: DE00 * Plant: HD00 wmount:	8000 EUR	Fac Rqst	Control Key: [tory Cal. ID: [g Cost Cntr: [ost Element: [ecution Fact;]	PS03 01	Subntwk exis Project Sum.

Note Because of the indicator "flexible" the duration of activity 0135 has been linked to the duration of activity 0130, since both activities are "parallel" and activity 0130 has a longer duration. The planned costs of activity 0135 have decreased to 8 000 and are equally distributed over the (flexible) duration of the activity.

Use the Save button.	
Click on the home icon SAP to return to the Fiori Launchpad Overview.	
[

Time 10 min



Step 11: Post activity confirmations

Task Post activity confi	rmations for your proj	ject.	Time 10 min
Short Description Confirmations for your p	Use the SAP Fiori project	Launchpad to post activity	
Name (Position) Jamie	Shamblin (AR Accou	intant)	
In the execution phase, movements, capacity uti of actuals is always the already released the enti	we post actuals (actu lization) to the projec e release of the assoc re project.	ual dates, actual costs, material et. A prerequisite for the posting ciated project object. We have	
To post activity confirm Accountant the app Con	nations, use in the Pro firm Network Activity	<i>oject System</i> area in the role <i>AR</i> .	Fiori Ap
Note If the app is not dis	splayed, search for it l	by using the search bar \mathbf{Q} .	
	Confirm Network Activity		
	»B		
In the <i>Network Activitie</i> Now all the activities of	s search, enter your pyour project are displ	project P/2### and press Enter. layed.	
	Network Activities		
	P/2400	×C	
	Small series production 4000028 / 0120 Project P/2400	100.0 Hours	
	General concept 4000028 / 0010 Project P/2400	80.0 Hours	
	Prototype assembly 4000028 / 0070 Project P/2400	60.0 Hours	
Select the General conce	ept operation from the	e list of activities.	

In the details of the process, you will see that it is scheduled for 80 hours.

Confirm Ne	etwork Activity		
Gener	ral concept		80.0 Hours
4000028	/ 0010		Earliest Scheduled: 08/08/2023 - 08/17/2023
DVLP100	00 / HD Development		Latest Scheduled: 08/08/2023 - 08/17/2023
Plant Hei	idelberg		Actual Confirmed:
Project P	72400		
		Work Overview	
80	80		80
60			
40			
40			
20			
		0	
0	Planned Duration	Actual Duration	Forecast Duration

The first part of the processing has taken 35 hours so far. Enter **35** as *actual*. Delete both the *actual start date* and the *actual finish date*.

Report Processing			Report Date		
Planned:	80.0 Hours		Actual Start:	MM/dd/yyyy	
Actual:	35.0	Hours	Actual Finish:	MM/dd/yyyy	
Remaining:	0.0	Hours	Forecast Finish:	MM/dd/yyyy	Ē
Forecast:	80.0 Hours				
Report Processing Pe	ercentage				
Processing:	100	%			
Report Processing			Report Date		
Report Processing			Report Date		
Planned:	80.0 Hours		Actual Start:	MM/dd/yyyyy	
Actual:	35.0	Hours	Actual Finish:	MM/dd/yyyyy	
Remaining:	45	Hours	Forecast Finish:	MM/dd/yyyy	
Forecast:	80.0 Hours				
Report Processing Pe	rcentage				
Processing:	44	%			
Press	to report	the effort.			
		~			

Note The difference between a confirmation and a final confirmation is that after a confirmation the status of the operation is partially confirmed, whereas with a final confirmation the status is set to fully confirmed.

35 Actual Start Actual Finish

(1) Confirm Net	twork Activity
Confirm your entr	ries?
	Confirm Cance

Press Confirm again.

You can see that an actual duration of 35 hours has now been reported. Furthermore, the remaining processing time has been reduced from 80 to 45 hours.

		Ho
4000028 / 0010		Eartiest Scheduled: 08/08/2023 - 08/17/20
DVLP1000 / HD Development		Latest Scheduled: 08/08/2023 - 08/17/20
Plant Heidelberg		Actual Confirm
Project P/2400		
	Work Overview	
80		80
·	20	
·	22	
Planned Duration	Actual Duration	Forecast Duration
SAD		1 10 '
ick on the home icon	to return to the Fiori L	aunchpad Overview.



Task Display the actual co	st reporting.		Time 5 min
Short Description Use the reporting.	e SAP Fiori Launchpad	to display the actual cost	
Name (Position) Silvia Ca	ssano (Controller)		
The actual costs will be an	alyzed using the cost elen	nent report.	
To display the actual cost a <i>Controller</i> the app <i>Project</i> <i>Area Currency</i> .	reporting, use in the <i>Proje</i> <i>Costs - Actual/Commitm</i>	ect System area in the role eent/Total/Planned in CO	Fiori App
	Project Costs Actual/Commitment/		
If required, enter in databa	se GL01000 and confirm	with 🗹.	GL01000
Enter p	ofile	×	
	Database prof.: GL01000		
	~	×	
Enter in the selection screen EU00, for Plan Version 0. To fiscal year enter the ne	n for Project P/2### , in the Enter the current year for ext year . By From period	e Controlling Area choose or From fiscal year and in enter 1 and in to period	P/2### EU00 0 current year next year
enter 12. Please delete all o	other field entries.		1

	to:		
	to:		
	654°+		
	to:		
view of the	e cost types t	ised. The	se a
	view of the	view of the cost types to:	view of the cost types used. The

Object PRJ P/2400 Name of Person Resp.		0	Development of Ultra			
From Fiscal Year From Period	2023 1	To Fiscal Year To Period	2024 12			
Cost Elements		Actual	Commitments	Total	Plan	
6300000 Other operat 6991000 Cost of Labo 8000000 Labor 8012000 Prod. Wages 8013000 Admin. Overh 8014000 Sales Overhe	ring expenses or Overhead lead	1,750.00	5,000.00	5,000.00 1,750.00	8,000.00 5,000.00 21,250.00 5,737.50 4,048.14 5,397.50	
* All Cost Elements		1,750,00	5,000.00	6,750.00	49,433.14	

Due to the confirmation of expenses, actual costs of EUR 1,750 are now reported.

Click on the home icon **see** to return to the Fiori Launchpad Overview.

Step 13: Create creditor invoice

Task Create a creditor invo	vice.	Time 5 min
Short Description Use the	SAP Fiori Launchpad to create a creditor invoice.	
Name (Position) Jamie Sha	amblin (AR Accountant)	
Before the general release f the ultralight racing bikes. the enterprise for their servi execution.	for mass production, professional bikers are testing After testing, the professionals send an invoice to ice. This leads to further actual costs in the project	
To success o sucditor invoid	a was in the Dusiest Custom area in the role AD	
Accountant the app Create	Incoming Invoices.	Fiori Арр
11		
	Create Incoming Invoices	
	5	
If required enter DE00 for	Company Code.	DE00
In the following screen, en for the Invoice and enter fo performance testing ### .	ter for Supplier 114 ###, choose the today's date r Amount 9700 . In the text field enter Invoice for Press Enter.	114### today's date 9700 Invoice for performance testing ###

< SAP Enter	Vendor Invoice: Company Cod	Search In: "Apps"	
Menu 🗸 🔀 Tree On	Company Code 🔛 Hold 🔛 Simula	ate) 🖫 Park) 🖉 Editing	Options
Т	ransactn: R Invoice	✓ Bal.:	0.00
Basic data Payme	nt Details Tax Notes		
Supplier	114400	Sp.G/LI:	
Invoice date	08/09/2023	Reference:	
Posting Date	08/09/2023	3	
Cross-CC Number			
Amount	9700	EUR	
	Ca	Iculate Tax	
Tax Amount:			\checkmark
Text	Invoice for performance testing 400		
Company Code	DE00 Global Bike Germany GmbH Heic	lelberg	
Enter 6300000 for C A0 for tax code.	$\frac{1}{L}$ account and * for amount	in document curre	ncy. Enter 6300000 A0
Definition tab and er	ment (1)	The Networks for Project Definition.	Then press
Search and Select		<u></u>	
C: Networks for Project Definitions Project definition: P/2400 Items (1) Project definiti Net N P/2400 4000028 D	Network:	Network Name:	Hide Filters
Select your network Enter 0135 for <i>Tran</i> 0 Items (No entry variant se 5 St G/L acct Short 6 300000	and confirm the selection w saction Number - Activity. lected) Text D/C Amount in doc.curr. S D ~	th OK. Cos Network * 4000028	Transaction no 0135
Press Enter to confin data.	m the entries. The system co	mpletes all further	necessary
Post the invoice. Us	e the Post icon to post the in	voice.	

Document 190000003 was posted in company code DE00

Click on the home icon **SAP** to return to the Fiori Launchpad Overview.



Task Display the actual cost reporting.	Time 5 min
Short Description Use the SAP Fiori Launchpad to display the actual cost reporting.	
Name (Position) Silvia Cassano (Controller)	
To display the actual cost reporting, use in the <i>Project System</i> area in the role <i>Controller</i> the app <i>Project Costs - Actual/Commitment/Total/Planned in CO Area Currency</i> .	Fiori App
Project Costs Actual/Commitment/ If required, enter in database GL01000 and confirm with Image: Control of the second	GL01000
Enter in the selection screen for Project P/2###, in the Controlling Area choose EU00, for Plan Version 0. Enter the current year for From fiscal year and in To fiscal year enter the next year. By From period enter 1 and in to period enter 12. Please delete all other field entries.	P/2### EU00 0 current year next year 1 12

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Menu 🗸 🚯 🗐 Data Source) 🕄 🖉 Chan	ge DB profile	Other DB profile	Status 💿	
Project Management Selections (Other DB profi	le: GL01000))		
Project:	P/2400		to:	
Sales document:			to:	
WBS Element:		P2	to:	
Network/order:			to:	
Activity			to:	
Materials in network:	[to:	
Selection values	EUGO			
Plan Varian	0			
From Fiscal Year:	2023			
To Fiscal Year:	2024			
	1			
From Period:				

Click on Execute. You get an overview of the cost types used. These are divided into actual, commitment, total and planned costs.

Act/Com/Total/Plan		As of::08/09/2023	1	Page:	2 / 6
				Column	1 / 4
Object	PRJ P/2400		Development of I	Jltra	
Name of Person Resp.					
From Fiscal Year	2023	To Fiscal Year	2024		
From Period	1	To Period	12		
Cost Elements		Actual	Commitments	Total	Plan
6300000 Other opera	ating expenses	9,700.00		9,700.00	8.000.0
6991000 Cost of Lat	20 r		5,000.00	5,000.00	5,000.0
8000000 Labor		1,750.00		1,750.00	21,250.0
8012000 Prod. Wages	s Overhead				5,737.5
8013000 Admin. Over	rhead				4,048.1
8014000 Sales Over	nead				5.397.5

Due to the receipt of the invoice, further actual costs of EUR 9,700 are now reported.

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