



### Deliverable Report

<b>Deliverable No:</b>	D1.1	<b>Delivery Month:</b>		14
<b>Deliverable Title</b>	Periodic Report, including financial and administrative reports for Mo 1-12			
<b>WP No:</b>	1	<b>WP Lead beneficiary:</b>		P1. HCMR
<b>WP Title:</b>	Project Management			
<b>Task No:</b>	1.4	<b>Task Lead beneficiary:</b>		P1. HCMR
<b>Task Title:</b>	Communication with the European Commission (EC) and project Periodic Reporting			
<b>Other beneficiaries:</b>	P2. FCPCT	P3. IRTA	P4. IOLR	P5. UNIABDN
P6. DLO	P7. IMR	P8. IEO	P9. UL	P10. TU/e
P11. AU	P12. APROMAR	P13. UNIBA	P14. IFREMER	P15. ULL
P16. FUNDP	P17. NIFES	P18. CTAQUA	P19. CMRM	P20. SARC
P21. DTU	P22. SWH	P23. ARGO	P24. ITICAL	P25. DOR
P26. GEI	P27. FORKYS	P28. CANEXMAR	P29. ASIALOR	P30. CULMAREX
P31. IRIDA	P32. MC2	P33. FGM	P34. BVFi	P35. MASZ
P36. ANFACO	P37. EUFIC	P38. HRH		
<b>Status:</b>	Delivered/delayed		<b>Expected month:</b>	14

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**Other Scientists participating:** Duncan, N. (IRTA), Fernandez-Palacios, H. (FCPCT), Koven, W. (IOLR), Papandroulakis, N. (HCMR), Secombes, C. (UNIABDN), Tacken, G. (DLO), Robles, R. (CTAQUA)

**Objective:** The objective of this Deliverable is to update the Scientific and Financial Officers of the project of the work implemented and the use of resources during the reporting period (Mo 1-12, December 2013-November 2014).

**Description:** The Scientific Report was submitted through the Participants Portal on 30 December 2014 (1 month from the completion of the 1<sup>st</sup> Period), while the Financial Report was submitted on the 23 January 2015, within the 60-day period allowed.

The preparation of the 1<sup>st</sup> Periodic Report begun concomitantly with the preparation of the Annual Coordination Meeting (ACM 2014, which was held in Bari, Italy on 3-6 November 2014), when all Work Package (WP) Lead Beneficiaries (*i.e.*, the WP leaders) were provided with the Report template for their WPs and were asked to coordinate and compile the preparation of the results obtained during this period. At the Annual Coordination Meeting 2014, a presentation was given by the Project Coordinator (PC), in order to explain how the Scientific reporting needs to be done for the project. It was stressed that the Periodic Report must include the work carried out during the reporting period with enough detail, but without excessive and unnecessary information. This would allow the Consortium members to follow the major achievements as well as problems encountered during the 1<sup>st</sup> period, and will enable both the EU Scientific Officer and the Mid-Term Evaluation committee to evaluate the work in relation to the DOW, and be able to make any necessary recommendations.

To speed up the process of preparing the report, while at the same time ensuring that a uniform and high quality document is presented (both in terms of format and content), the work has been delegated to all Consortium members as follows:



- a. The Lead Beneficiaries for each Work Package would request the text/figures/tables for each Task from the Task leaders, who were responsible to coordinate their writing with all scientists participating in their task. This process had already begun in preparation for the ACM 2014, so few modifications were necessary,
- b. The Lead Beneficiaries then compiled all the information into a single document for each Work Package, reviewed it for content/format/editorial errors and submitted it to the GWP leader,
- c. The GWP leaders then compiled all the Work Packages into a single document for each GWP, reviewed it for content/format/editorial errors and submitted it to the PC,
- d. The PC then compiled all the GWPs into a single document to prepare the 1<sup>st</sup> Periodic Report (0-12 Months), and reviewed it for content/format/editorial errors,
- e. The GWP leaders prepared the additional information required for the Periodic Report:
  - i. Publishable Summary,
  - ii. Project objectives for the period,
  - iii. Project progress and achievements for the period,

Once completed, the above were submitted to the PC for incorporation in the Periodic Report. The PC prepared the remaining sections required (e.g., Project management for the Period, Deliverables and Milestones, etc.) and submitted the 1<sup>st</sup> Periodic Report by 30 December 2014 (**Fig. 1**).

**PROJECT PERIODIC REPORT<sup>1</sup>**

**Grant Agreement number:** 603121<sup>2</sup>

**Project acronym:** DIVERSIFY<sup>2</sup>

**Project title:** Exploring the biological and socio-economic potential of new/emerging fish species for the expansion of the European aquaculture industry<sup>2</sup>

**Funding Scheme:** FP7-KBBE-2013-7-single-stage<sup>2</sup>

**Date of latest version of Annex I against which the assessment will be made:** 28 March 2014 (Amendment 1)<sup>2</sup>

**Periodic report:** → → 1<sup>st</sup> ☒ 2<sup>nd</sup> ☐ 3<sup>rd</sup> ☐ 4<sup>th</sup> ☐ →

**Period covered:** → → from 0 to 12 mo<sup>2</sup>

**Name, title and organisation of the scientific representative of the project's coordinator<sup>3</sup>:** <sup>2</sup>

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**Project website<sup>3</sup> address:** [www.diversifyfish.eu](http://www.diversifyfish.eu)<sup>2</sup>

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<sup>1</sup> Usually the contact person of the coordinator as specified in Art. 8.1. of the Grant Agreement.<sup>2</sup>

<sup>2</sup> The home page of the website should contain the generic European flag and the FP7 logo which are available in electronic format at the Europa website (logo of the European flag: [http://europa.eu/abc/symbols/emblem/index\\_en.htm](http://europa.eu/abc/symbols/emblem/index_en.htm) logo of the 7th FP: [http://ec.europa.eu/research/fp7/index\\_en.cfm?pg=logos](http://ec.europa.eu/research/fp7/index_en.cfm?pg=logos)). The area of activity of the project should also be mentioned.<sup>3</sup>

**Figure 1** The cover page of the 1<sup>st</sup> Periodic Report of DIVERSIFY, submitted on 30 December 2014.



At the same time, Partners were also given instructions on the preparation of the use of resources, which would be used to prepare the Financial Reports (Form C). The use of resources forms begun to be submitted to the PC towards the end of November 2014, and they were evaluated by the Project Officer of P1. HCMR (Mr Yanis Fakriadis)(Fig. 2).

Use of Resources		Costs Report		Project no.	603121	Period:	01/12/2013 - 30/11/2014
				PIC:	951304318	Participant No.	26
				Acronym: DIVERSIFY			
VAS. GEITONAS & CO LTD EE							
PERSONNEL							
Activity Type	Work Package	Explanation	Cost				
RTD/INNOVATION	23	Evangelia Zania-Icthiologist (1270 Euros) Salary for 1 man-month.	€ 1,270.00				
	23	Nikolaos Themelis-Fish farming Worker (1100Euros) Salary for 1 man-month.	€ 1,100.00				
			PERSONNEL - RTD/INNOVATION	total (€)	2,370.00		
MANAGEMENT	1	Anastasia Griva, 0,1 man-month, Financial Reporting	€ 200.00				
				PERSONNEL - MANAGEMENT	total (€)	200.00	
			PERSONNEL	total (€)	2,570.00		
OTHER DIRECT							
Activity Type	Work Package	Explanation	Cost				
RTD/INNOVATION	23	CONSUMABLES: Fish Feed for 2 months	€ 1,500.00				
	23	OTHER: Dimitrios Brezas, Fishing of Mugil cephalus	€ 1,200.00				
	23	DURABLE EQUIPMENT: Equipment for the oxygen system of tanks. Depreciation 20% per year (5 years).	€ 240.00				
	23	TRAVELING: Evangelos Geitonias-Lear, Kick-off Meeting, 28-30.1.2014, Crete, Greece.	€ 250.00				
				OTHER DIRECT - RTD/INNOVATION	total (€)	3,190.00	
	MANAGEMENT	1	TRAVELING: Evangelos Geitonias-Lear, kick-off meeting, 28-30.1.2014, Crete, Greece.	€ 250.00			
			OTHER DIRECT - MANAGEMENT	total (€)	250.00		
			OTHER DIRECT	total (€)	3,440.00		
INDIRECT							
			INDIRECT	total (€)	3,606.00		
				FORM C TOTAL(€)	9,616.00		

Figure 2 Example of a use of resources form, from a Partner from DIVERSIFY.

After any necessary modifications and a few rounds of exchanges with each Partner, the Form Cs were concluded and submitted officially to the PC. Unfortunately, due to the Christmas holidays and the closing of many organizations, it was not possible to conclude the Financial Reports of some Partners at the same time that the Scientific Report was completed (*i.e.*, by 30 December 2014) and was necessary to wait for the 23rd of January 2015 for the submission of the Financial Report through the Participants Portal (Fig. 3).

# FP7-KBBE-2013-07, DIVERSIFY 603121

## FP7 - Grant Agreement - Annex VI - Collaborative project

Summary Financial Report - Collaborative project																			
Project acronym			DIVERSIFY	Project nr.		603121		Reporting period from		01/12/2013		to		30/11/2014		Page		1/1	
Funding scheme			CP		Type of activity										Total (A)+(B)+(C)+(D)				
Beneficiary nr.	If 3rd Party, linked to beneficiary	Adjustment (Yes/No)	Organization Short Name	RTD (A)		Demonstration (B)		Management (C)		Other (D)		Total		Max EU Contribution		Receipts	Interest		
				Total	Max EU Contribution	Total	Max EU Contribution	Total	Max EU Contribution	Total	Max EU Contribution	Total	Max EU Contribution						
1		No	HCMR	146,945.91	110,209.43	0.00	0.00	31,322.14	31,322.14	10,457.32	10,457.32	188,725.37	151,988.89			0.00	0.00		
2		No	FCPCT	150,340.42	112,755.32	0.00	0.00	0.00	0.00	0.00	0.00	150,340.42	112,755.32			0.00	0.00		
3		No	IRTA	171,406.67	128,555.00	0.00	0.00	835.01	835.01	0.00	0.00	172,241.68	129,390.01			0.00	0.00		
4		No	IOLR	116,216.00	87,162.00	0.00	0.00	1,827.20	1,827.20	0.00	0.00	118,043.20	88,989.20			0.00	0.00		
5		No	UNIABDN	37,961.15	28,470.86	0.00	0.00	657.84	657.84	0.00	0.00	38,618.99	29,128.70			0.00	0.00		
6		No	DLO	130,496.29	97,872.22	0.00	0.00	4,561.08	4,561.08	0.00	0.00	135,057.37	102,433.30			0.00	0.00		
7		No	IMR	104,181.35	78,136.01	0.00	0.00	2,409.06	2,409.06	0.00	0.00	106,590.41	80,545.07			0.00	0.00		
8		No	IEO	55,919.04	41,939.28	0.00	0.00	2,209.90	2,209.90	5,107.04	5,107.04	63,235.98	49,256.22			0.00	0.00		
9		No	UL	32,153.12	24,114.84	0.00	0.00	2,520.72	2,520.72	1,364.16	1,364.16	36,038.00	27,999.72			0.00	0.00		
10		No	TU/e	60,665.78	45,499.34	0.00	0.00	3,831.68	3,831.68	0.00	0.00	64,497.46	49,331.02			0.00	0.00		
11		No	AU	40,604.08	30,453.06	0.00	0.00	918.02	918.02	0.00	0.00	41,522.10	31,371.08			0.00	0.00		
12		No	APROMAR	51,204.36	25,602.18	0.00	0.00	653.24	653.24	4,053.14	4,053.14	55,910.74	30,308.56			0.00	0.00		
13		No	UNIBA	64,868.51	48,651.38	0.00	0.00	6,463.28	6,463.28	0.00	0.00	71,331.79	55,114.66			0.00	0.00		
14		No	IFREMER	51,645.34	38,734.01	0.00	0.00	2,384.94	2,384.94	0.00	0.00	54,030.28	41,118.95			0.00	0.00		
15		No	ULL	31,213.60	23,410.20	0.00	0.00	1,041.52	1,041.52	0.00	0.00	32,255.12	24,451.72			0.00	0.00		
16		No	FUNDP	17,394.30	13,045.73	0.00	0.00	803.94	803.94	0.00	0.00	18,198.24	13,849.67			0.00	0.00		
17		No	NIFES	13,958.10	10,468.58	0.00	0.00	2,362.68	2,362.68	0.00	0.00	16,320.78	12,831.26			0.00	0.00		
18		No	CTAQUA	0.00	0.00	0.00	0.00	1,880.90	1,880.90	19,290.26	19,290.26	21,171.16	21,171.16			0.00	0.00		
19		No	CMRM	25,485.79	19,114.34	0.00	0.00	1,217.82	1,217.82	0.00	0.00	26,703.61	20,332.16			0.00	0.00		
20		No	SARC	20,713.33	10,356.67	0.00	0.00	1,459.00	1,459.00	0.00	0.00	22,172.33	11,815.67			0.00	0.00		
21		No	DTU	31,151.00	23,363.25	0.00	0.00	3,440.00	3,440.00	0.00	0.00	34,591.00	26,803.25			0.00	0.00		
22		No	SWH	69,839.00	34,919.50	0.00	0.00	1,920.00	1,920.00	0.00	0.00	71,759.00	36,839.50			0.00	0.00		
23		No	ARGO	108,716.70	81,537.53	0.00	0.00	1,544.94	1,544.94	0.00	0.00	110,261.64	83,082.47			0.00	0.00		
24		No	ITTICAL	58,851.20	44,138.40	0.00	0.00	1,774.24	1,774.24	0.00	0.00	60,625.44	45,912.64			0.00	0.00		
25		No	DOR	18,880.00	14,160.00	0.00	0.00	1,648.00	1,648.00	0.00	0.00	20,528.00	15,808.00			0.00	0.00		
26		No	GEI	8,896.00	6,672.00	0.00	0.00	720.00	720.00	0.00	0.00	9,616.00	7,392.00			0.00	0.00		
27		No	FORKYS	12,497.57	9,373.18	0.00	0.00	275.44	275.44	0.00	0.00	12,773.01	9,648.62			0.00	0.00		
28		No	CANEXMAR	12,261.50	9,196.13	0.00	0.00	320.00	320.00	0.00	0.00	12,581.50	9,516.13			0.00	0.00		
29		No	ASIALOR	53,942.00	40,456.50	0.00	0.00	1,439.00	1,439.00	0.00	0.00	55,381.00	41,895.50			0.00	0.00		
30		No	CULMAREX	17,084.32	8,542.16	0.00	0.00	1,498.00	1,498.00	0.00	0.00	18,582.32	10,040.16			0.00	0.00		
31		No	IRIDA	7,104.00	5,328.00	0.00	0.00	1,112.00	1,112.00	0.00	0.00	8,216.00	6,440.00			0.00	0.00		
32		No	MC2	9,940.03	7,455.02	0.00	0.00	2,501.17	2,501.17	0.00	0.00	12,441.20	9,956.19			0.00	0.00		
33		No	FGM	0.00	0.00	0.00	0.00	958.19	958.19	2,999.93	2,999.93	3,958.12	3,958.12			0.00	0.00		
34		No	BVFi	0.00	0.00	0.00	0.00	1,670.54	1,670.54	3,913.15	3,913.15	5,583.69	5,583.69			0.00	0.00		
35		No	MASZ	0.00	0.00	0.00	0.00	1,125.31	1,125.31	1,362.82	1,362.82	2,488.13	2,488.13			0.00	0.00		
36		No	ANF	0.00	0.00	0.00	0.00	426.10	426.10	1,284.97	1,284.97	1,711.07	1,711.07			0.00	0.00		
37		No	EUFIC	0.00	0.00	0.00	0.00	271.80	271.80	12,592.64	12,592.64	12,864.44	12,864.44			0.00	0.00		
38		No	HRH	81,922.04	61,441.53	0.00	0.00	2,036.00	2,036.00	0.00	0.00	83,958.04	63,477.53			0.00	0.00		
TOTAL				1,814,458.50	1,321,133.65	0.00	0.00	94,040.70	94,040.70	62,425.43	62,425.43	1,970,924.63	1,477,599.78						
Requested EU contribution for the reporting period (in €)													1,477,599.78						

Figure 3 Summary Financial Report, submitted on 23 December 2015.

The Scientific Report begun with an outline of the Project's objectives for the Reporting Period, in the WPs of each of the included Scientific Disciplines (**Fig. 4**). Then, a brief, yet detailed description followed of the work implemented in every WP during the reporting period, together with a clear explanation of any necessary or unavoidable deviations from the DOW.

A section on "Project management during the period" then followed, which included information on the establishment of the management bodies of the consortium, the kickoff and Annual Coordination Meeting of 2014, changes in the consortium, interactions with other projects (Private, as well as National and EU-funded ones) and development of the project website ([www.diversifyfish.eu](http://www.diversifyfish.eu)). At the end, all deviations from the DOW were summarized and an explanation was provided for any necessary budget modifications, such as reallocations between Partners, or between types of expenses.

In general, we believe that the project run very well during this first reporting period, with a small number of deviations from the DOW, all of which without any negative effect on the implementation of the work as a whole or on the proposed deliverables. In some instances the deviations will have a positive effect on the implementation of the DOW (*e.g.*, WP2 Reproduction & Genetics – meagre).

DIVERSIFY - GA 602131		→	
2. Core of the report for the period: <sup>¶</sup>			
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DIVERSIFY - GA 602131		→	
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**Figure 4** The Table of Contents of the 1<sup>st</sup> Period Report (Mo 1-12, December 2013-November 2014).

The 1<sup>st</sup> Periodic Report included also a part that was completed through the Participants Portal (**Fig. 5**), which included the following:

- summary description of the project context and the main objectives,
- a description of the work performed since the beginning of the project and the main results achieved so far,



- description of the expected final results and their potential impacts and use (including socio-economic impact and the wider societal implications of the project so far),
- lists of Deliverables and Milestones.

EUROPEAN COMMISSION RESEARCH AND INNOVATION DG		Periodic Report
<p>Project No: 603121 Project Acronym: DIVERSIFY Project Full Name: Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry</p>		
<p><b>Periodic Report</b></p>		
<p>Period covered: from 01/12/2013 to 30/11/2014 Start date of project: 01/12/2013 Project coordinator name: Dr. Constantinos Mylonas Version: 1</p>		
<p>Date of preparation: 19/12/2014 Date of submission (SESAM): 30/12/2014 Project coordinator organisation name: HELLENIC CENTRE FOR MARINE RESEARCH</p>		
<p><b>1. Publishable summary</b> <b>Summary description of project context and objectives</b></p> <p>The European aquaculture sector is a modern industry employing 190,000 people (directly or indirectly), with a €7 billion ex-farm value. Many world-class researchers and facilities exist in research centers and universities throughout Europe, while the private sector employs highly skilled and educated personnel, with modern production facilities. This sector is well situated to be among world leaders in the efficient and sustainable production of safe seafood of the highest quality and nutritional value, taking into account consumer preferences and lifestyles, and the immense diversity of aquatic products from the wild, to which the consumer is accustomed.</p> <p>Aquaculture is undertaken in all EU states, and plays an important role in the supply of high quality seafood to the European consumer. Europe has an increasing demand for a diverse range of fish products especially for fish fillets or processed products. However, while the worldwide contribution of aquaculture towards fish consumption is just shy of 50%, in the EU only 10% of the seafood consumption originated from EU aquaculture and the consumption of imported seafood is currently at 65% today. This situation can be attributed partially to a lack of diversity of aquaculture products and, perhaps more importantly, a lack of processed aquaculture products.</p> <p>Even though some 35 aquatic species are cultured in Europe, finfish aquaculture production is dominated both in volume and value by a handful of species – such as Atlantic salmon (<i>Salmo salar</i>), rainbow trout (<i>Oncorhynchus mykiss</i>), common carp (<i>Cyprinus carpio</i>), European sea bass (<i>Dicentrarchus labrax</i>) and gilthead sea bream (<i>Sparus aurata</i>) – that in turn limit the number of aquaculture products available in the market. An efficient, sustainable and market-oriented expansion of the EU aquaculture sector based on new species and products will reduce the dependence of the EU consumer on imports from countries of questionable, often, production, health, environmental and social standards, and reduce the pressure on over-exploited fisheries in the EU.</p> <p>DIVERSIFY will provide knowledge where needed to solve bottlenecks in juvenile production, grow-out, nutrition and feeding husbandry, new product development and marketing of six new/emerging species. DIVERSIFY focuses on meagre (<i>Argyrosomus regius</i>) and greater amberjack (<i>Seriola dumerilii</i>) for marine warm-water cage culture, woadfish (<i>Polypterus americanus</i>) for warm- and cool-water marine cage culture, Atlantic halibut (<i>Hippoglossus hippoglossus</i>) for marine cold-water culture, grey mullet (<i>Mugil cephalus</i>) a curlytail herbivore for warm water pond, extensive and integrated culture, and pikeperch (<i>Sander lucioperca</i>) for freshwater intensive culture using Recirculation Aquaculture Systems (RAS). These species were selected based both on their biological and economical potential, and to cover the entire European geographic area and stimulate different aquaculture types. Given their large size and/or fast growth, these species provide for high dress-out and fillet yield, short time to market and suitability for product diversification and development of value-added products. The expertise in the consortium and lessons learned, could provide in a 5 year period what took the Atlantic salmon industry 20 years of development.</p> <p>A strong socioeconomic component is also included in DIVERSIFY, in order to address issues that are presently important bottlenecks in aquaculture consumption and diversification – which are beyond biological/production issues. The socioeconomic part of the project has an applied market development approach. In this component the perception of aquaculture products in general and products specifically, market demand, consumer and professional buyer preferences, new product development, value adding to raw products and market development have a central role. An important bottleneck in aquaculture consumption is that in many countries and/or segments of the EU market, aquaculture fish have a weaker image than wild fish. This threat to the expansion of the aquaculture sector must be recognized and addressed in parallel to any technological improvement of production methods or the addition of new fish species or products by the aquaculture industry.</p> <p>The combination of biological, technological and socioeconomic research activities planned in DIVERSIFY are expected to support the diversification of the aquaculture industry and help in expanding production, increasing aquaculture products and development of new markets.</p>		
<p>Project No: 603121 Period number: 1st Ref: 603121_DIVERSIFY_Periodic_Report-11_20141230_200111_CET.pdf</p>		

3. Deliverables and milestones tables										
Deliverables (excluding the periodic and final reports)										
Del. no.	Deliverable name	Version	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj months)	Actual / Forecast delivery date	Status	Comments
1	Kick-off meeting	1.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Other	RE	2	10/02/2014	Submitted	
2	Consortium Agreement	1.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Other	CO	3	20/03/2014	Submitted	
3	Annual Coordination Meeting for Y2	1.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Other	RE	13	28/11/2014	Submitted	
4	Periodic Report, including financial and administrative reports for Mo 1-12	0.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Report	CO	14	31/01/2015	Not submitted	
5	Interactions with other projects	0.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Report	RE	18	31/05/2015	Not submitted	
6	Annual Coordination Meeting for Y3	0.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Other	RE	25	31/12/2015	Not submitted	
7	Mid-term evaluation of progress	0.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Report	PU	30	31/05/2016	Not submitted	
8	Periodic Report, including financial and administrative reports for Mo 13-30	0.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Report	CO	32	31/07/2016	Not submitted	
9	Annual Coordination Meeting	0.0	1	HELLENIC CENTRE FOR MARINE RESEARCH	Report	RE	37	31/12/2016	Not submitted	

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Figure 5 The section of the 1<sup>st</sup> Period Report completed through the Participants Portal.

**Deviations:** There were no deviations from the DOW.



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