

# **Investment Decision Making Inputs**

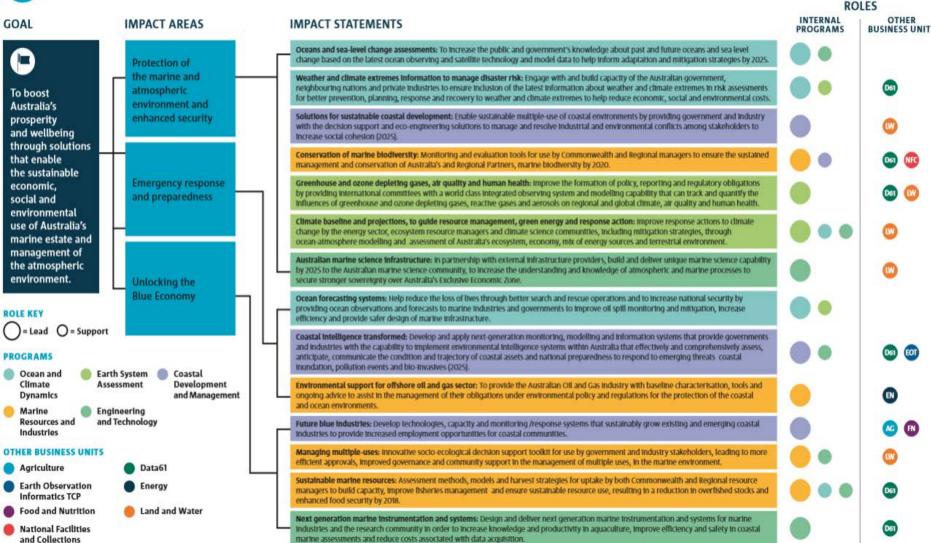
CSIRO & Oceans and Atmosphere Business Unit level analysis 4 December 2015





#### **Oceans and Atmosphere Impact Strategy**

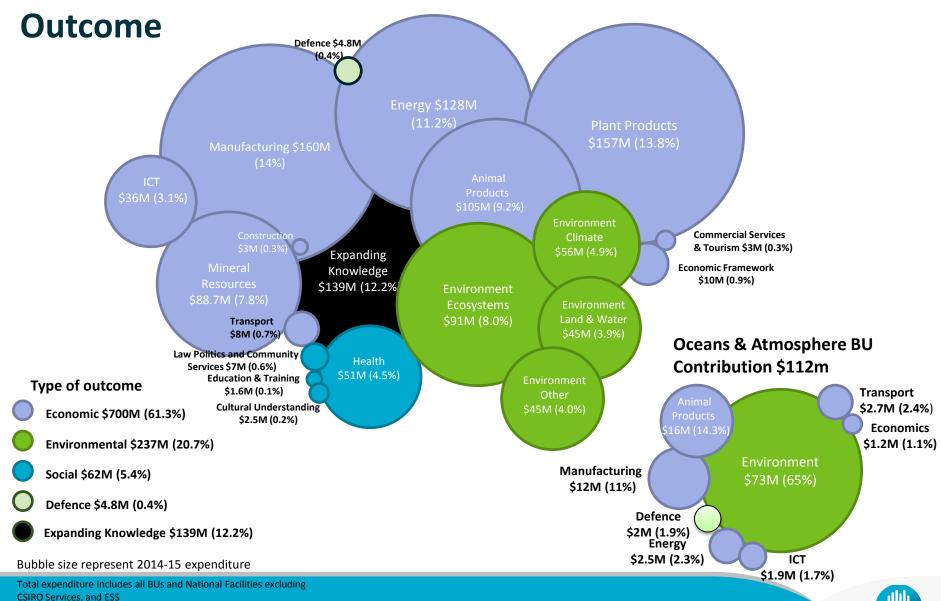
#### IMPACT STRATEGY ON A PAG



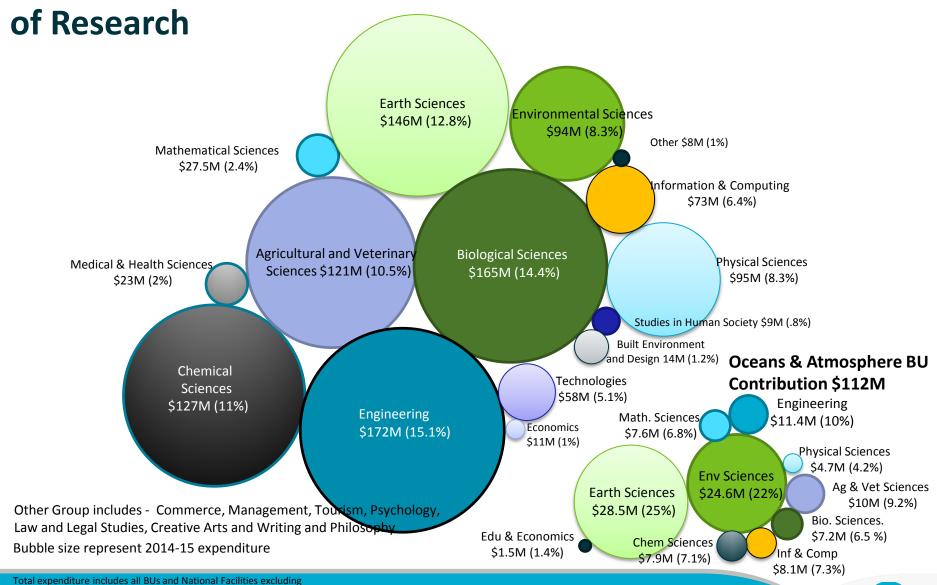
Source: Business Unit Strategic Plans



# **CSIRO & Oceans and Atmosphere Investment by**



**CSIRO & Oceans and Atmosphere Investment by Field** 

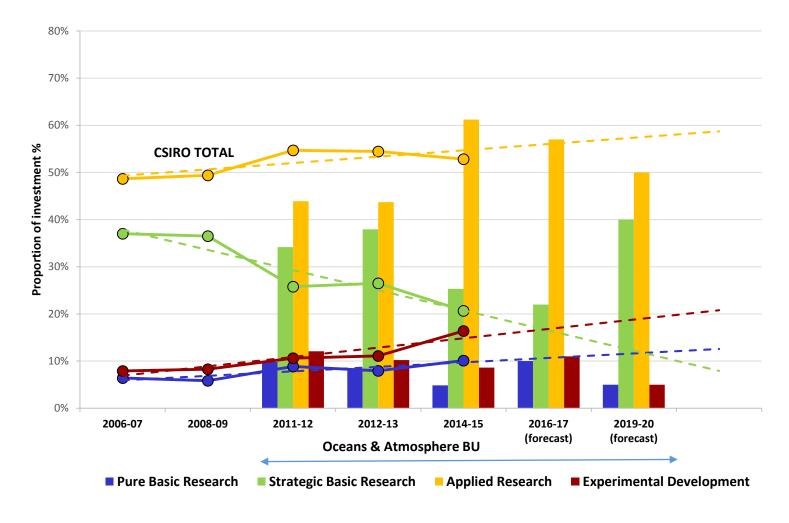






## Oceans and Atmosphere Portfolio by "Type of Activity"

#### **Business Unit vs. CSIRO trend**



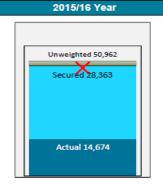


#### **External Revenue Pipelines**

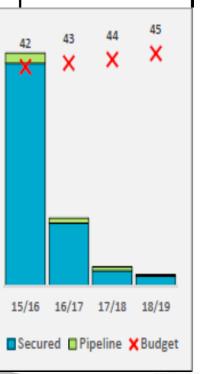
#### Oceans and Atmosphere Business Unit snapshot as at 31 October 2015

Business Unit:		Oceans a	nd Atmosp	here	
Program	Year Budget	We	eighted Pipel	ine	Gap
		Secured	Opportun.	Total	
Management Oceans and Atmosphere	0	0	0	0	0
Ocean & Climate Dynamics	7,500	7,059	77	7,136	(364)
Earth System Assessment	7,500	5,177	111	5,288	(2,212)
Coastal Development and Management	9,969	5,831	828	6,658	(3,311)
Marine Resources and Industries	10,800	17,500	871	18,371	7,571
Engineering and Technology	6,500	7,470	18	7,488	988
	42,269	43,037	1,904	44,942	2,673

YTD Budget         YTD Actual         Variance budget earned         % of Year's budget to Earn         Remaining to Earn           0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th>OCCIO</th> <th></th> <th></th> <th>All alliot</th> <th>ants \$ 000</th>	OCCIO			All alliot	ants \$ 000
2,500     2,606     106     35%     4,894       2,500     1,490     (1,010)     20%     6,010       3,323     1,975     (1,348)     20%     7,994       3,600     5,063     1,463     47%     5,737       2,167     3,539     1,372     54%     2,961			Variance	budget	_
2,500 1,490 (1,010) 20% 6,010 3,323 1,975 (1,348) 20% 7,994 3,600 5,063 1,463 47% 5,737 2,167 3,539 1,372 54% 2,961	0	0	0	0%	0
3,323 1,975 (1,348) 20% 7,994 3,600 5,063 1,463 47% 5,737 2,167 3,539 1,372 54% 2,961	2,500	2,606	106	35%	4,894
3,600 5,063 1,463 47% 5,737 2,167 3,539 1,372 54% 2,961	2,500	1,490	(1,010)	20%	6,010
2,167 3,539 1,372 54% 2,961	3,323	1,975	(1,348)	20%	7,994
	3,600	5,063	1,463	47%	5,737
14 090 14 674 584 35% 27 595	2,167	3,539	1,372	54%	2,961
14,000 14,014 304 3070 21,000	14,090	14,674	584	35%	27,595



	Opportunity description	Prime Customer	Opportunity Stage	Probability to Close (%)	Duration (years)	WOL Project Value	WOL External Revenue	Average Revenue p.a	External Revenue Ratio to CSIRO
NESP Biodiversity Director Salary  University of Tasmania  Qualify  60  6  3,553  2,040  340  Global Ocean Biodiversity Initiative (UK) & Int'l Union for O2D Migration - Internal Use Only Qualify  30  3  1,828  1,785  595  NESP Marine Biodiversity Hub Project A3 - A national pol University of Tasmania Qualify  10  2  3,384  1,692  781  NESP Marine Biodiversity Hub Project - A2 - Quantificatic University of Tasmania Qualify  10  3  2,202  1,101  413  Marine M & V Method Development (CCS Baselines) CO2CRC Limited Qualify  10  3  1,800  900  300  NESP Marine Biodiversity Hub Project A1 - Northern Ausl University of Tasmania Qualify  10  2  1,689  845  507  SBT gene-tagging pilot study Commission for the Conservation o Approve  100  3  1,362  816  297  2013/803-Survey, Stock Assessment and MSE for the Tor Australian Fisheries Management Qualify  40  40  40  40  40  40  40  40  40  4	CSSNET EIF Funded Research Infrastructure	CO2CRC Limited	Qualify	10	1	8,730	8,423	8,423	969
Global Ocean Biodiversity Initiative (UK) & Int'l Union for O2D Migration - Internal Use Only  NESP Marine Biodiversity Hub Project A3 - A national pol University of Tasmania  Qualify  NESP Marine Biodiversity Hub Project - A2 - Quantificatic University of Tasmania  Qualify  Qualif	ntegrated Pest Management of Crown-of-Thorns Star	ist Reef and Rainforest Research Cen	Create	90	3	4,239	3,000	1,000	719
NESP Marine Biodiversity Hub Project A3 - A national pol University of Tasmania  Qualify 10 2 3,384 1,692 781  NESP Marine Biodiversity Hub Project - A2 - Quantificatic University of Tasmania Qualify 10 3 2,202 1,101 413  Marine M & V Method Development (CCS Baselines) CO2CRC Limited Qualify 10 3 1,800 900 300  NESP Marine Biodiversity Hub Project A1 - Northern Aust University of Tasmania Qualify 10 2 1,689 845 507  SBT gene-tagging pilot study Commission for the Conservation o Approve 100 3 1,362 816 297  2013/803-Survey, Stock Assessment and MSE for the Tor Australian Fisheries Management Qualify	NESP Biodiversity Director Salary	University of Tasmania	Qualify	60	6	3,553	2,040	340	579
NESP Marine Biodiversity Hub Project - A2 - Quantificatic University of Tasmania  Qualify  10  3  2,202  1,101  413  Marine M & V Method Development (CCS Baselines)  CO2CRC Limited  Qualify  10  3  1,800  900  300  NESP Marine Biodiversity Hub Project A1 - Northern Aust University of Tasmania  Qualify  10  2  1,689  845  507  SBT gene-tagging pilot study  Commission for the Conservation o Approve  100  3  1,362  816  297  2013/803-Survey, Stock Assessment and MSE for the Tor Australian Fisheries Management Qualify  60  1  870  609  John Stocker Fellowship - Aimee Slangen - Solving the s Science and Industry Endowment F Qualify  10  2  1,100  550  330  ABRS Taxonomy of Gelationous Organisms  Department of the Environment Endorse  #  3  810  540  180  Create  10  1  533  533  1,067  Future Reef MAP2  Great Barrier Reef Foundation Qualify  60  3  912  456  152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify  60  2  672  400  200  NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10  2  570  285  190	Global Ocean Biodiversity Initiative (UK) & Int'l Union	for O2D Migration - Internal Use Only	Qualify	30	3	1,828	1,785	595	989
Marine M & V Method Development (CCS Baselines) CO2CRC Limited Qualify 10 3 1,800 900 300 NESP Marine Biodiversity Hub Project A1 - Northern Ausl University of Tasmania Qualify 10 2 1,689 845 507 SBT gene-tagging pilot study Commission for the Conservation o Approve 100 3 1,362 816 297 2013/803-Survey, Stock Assessment and MSE for the Tor Australian Fisheries Management Qualify 60 1 870 609 609 John Stocker Fellowship - Aimee Slangen - Solving the s Science and Industry Endowment F Qualify 30 3 1,551 552 179 NESP Marine Biodiversity Hub Project - B2 - SoE reportin University of Tasmania Qualify 10 2 1,100 550 330 ABRS Taxonomy of Gelationous Organisms Department of the Environment Endorse # 3 810 540 180 Create 10 1 533 533 1,067 Future Reef MAP2 Great Barrier Reef Foundation Qualify 30 2 500 500 214 NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152 Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800 2015/0823-Monitoring the traditional take of finfish specik Australian Fisheries Management Qualify 60 2 672 400 200 NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	NESP Marine Biodiversity Hub Project A3 - A national	ool University of Tasmania	Qualify	10	2	3,384	1,692	781	50
NESP Marine Biodiversity Hub Project A1 - Northern Ausl University of Tasmania Qualify 10 2 1,689 845 507  SBT gene-tagging pilot study Commission for the Conservation o Approve 100 3 1,362 816 297  2013/803-Survey, Stock Assessment and MSE for the Tor Australian Fisheries Management Qualify 60 1 870 609 609  John Stocker Fellowship - Aimee Slangen - Solving the s Science and Industry Endowment F Qualify 30 3 1,551 552 179  NESP Marine Biodiversity Hub Project - B2 - SoE reportin University of Tasmania Qualify 10 2 1,100 550 330  ABRS Taxonomy of Gelationous Organisms Department of the Environment Endorse # 3 810 540 180  Create 10 1 533 533 1,067  Future Reef MAP2 Great Barrier Reef Foundation Qualify 30 2 500 500 214  NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800  2015/0823-Monitoring the traditional take of finfish specix Australian Fisheries Management Qualify 60 2 672 400 200  NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	NESP Marine Biodiversity Hub Project - A2 - Quantifica	ntic University of Tasmania	Qualify	10	3	2,202	1,101	413	50
SBT gene-tagging pilot study  Commission for the Conservation o Approve 100 3 1,362 816 297 2013/803-Survey, Stock Assessment and MSE for the Tor Australian Fisheries Management Qualify 60 1 870 609 609  John Stocker Fellowship - Aimee Slangen - Solving the s Science and Industry Endowment F Qualify 30 3 1,551 552 179  NESP Marine Biodiversity Hub Project - B2 - SoE reportin University of Tasmania Qualify 10 2 1,100 550 330  ABRS Taxonomy of Gelationous Organisms Department of the Environment Endorse # 3 810 540 180  Create 10 1 533 533 1,067  Future Reef MAP2 Great Barrier Reef Foundation Qualify 30 2 500 500 214  NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800 2015/0823-Monitoring the traditional take of finfish specie Australian Fisheries Management Qualify 60 2 570 285 190	Marine M & V Method Development (CCS Baselines)	CO2CRC Limited	Qualify	10	3	1,800	900	300	509
2013/803-Survey, Stock Assessment and MSE for the Tor Australian Fisheries Management Qualify G0 1 870 609 609  John Stocker Fellowship - Aimee Slangen - Solving the s Science and Industry Endowment F Qualify 30 3 1,551 552 179  NESP Marine Biodiversity Hub Project - B2 - SoE reportin University of Tasmania Qualify 10 2 1,100 550 330  ABRS Taxonomy of Gelationous Organisms Department of the Environment Endorse # 3 810 540 180  Create 10 1 533 533 1,067  Future Reef MAP2 Great Barrier Reef Foundation Qualify 30 2 500 500 214  NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800  RESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	NESP Marine Biodiversity Hub Project A1 - Northern A	ust University of Tasmania	Qualify	10	2	1,689	845	507	50
John Stocker Fellowship - Aimee Slangen - Solving the s Science and Industry Endowment F Qualify 30 3 1,551 552 179  NESP Marine Biodiversity Hub Project - B2 - SoE reportin University of Tasmania Qualify 10 2 1,100 550 330  ABRS Taxonomy of Gelationous Organisms Department of the Environment Endorse # 3 810 540 180  Create 10 1 533 533 1,067  Future Reef MAP2 Great Barrier Reef Foundation Qualify 30 2 500 500 214  NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800  2015/0823-Monitoring the traditional take of finfish special Australian Fisheries Management Qualify 60 2 672 400 200  NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	SBT gene-tagging pilot study	Commission for the Conservation o	Approve	100	3	1,362	816	297	609
NESP Marine Biodiversity Hub Project - B2 - SoE reportin University of Tasmania   Qualify   10   2   1,100   550   330	2013/803-Survey, Stock Assessment and MSE for the	or Australian Fisheries Management	Qualify	60	1	870	609	609	70
ABRS Taxonomy of Gelationous Organisms	John Stocker Fellowship - Aimee Slangen - Solving the	s Science and Industry Endowment F	Qualify	30	3	1,551	552	179	36
Create 10 1 533 533 1,067  Future Reef MAP2 Great Barrier Reef Foundation Qualify 30 2 500 500 214  NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800 2015/0823-Monitoring the traditional take of finfish specik Australian Fisheries Management Qualify 60 2 672 400 200 NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	NESP Marine Biodiversity Hub Project - B2 - SoE repo	tin University of Tasmania	Qualify	10	2	1,100	550	330	50
Future Reef MAP2 Great Barrier Reef Foundation Qualify 30 2 500 500 214  NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800 2015/0823-Monitoring the traditional take of finfish specix Australian Fisheries Management Qualify 60 2 672 400 200 NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	ABRS Taxonomy of Gelationous Organisms	Department of the Environment	Endorse	#	3	810	540	180	67
NESP Jellyfish Proposal Department of the Environment Qualify 60 3 912 456 152  Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800 2015/0823-Monitoring the traditional take of finfish specie Australian Fisheries Management Qualify 60 2 672 400 200 NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190			Create	10	1	533	533	1,067	100
Continuous Water Quality Monitoring - II Great Barrier Reef Foundation Qualify 60 1 800 400 800 2015/0823-Monitoring the traditional take of finfish specik Australian Fisheries Management Qualify 60 2 672 400 200 NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	Future Reef MAP2	Great Barrier Reef Foundation	Qualify	30	2	500	500	214	100
2015/0823-Monitoring the traditional take of finfish specif Australian Fisheries Management Qualify 60 2 672 400 200 NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	NESP Jellyfish Proposal	Department of the Environment	Qualify	60	3	912	456	152	50
NESP RV2-Grey Nurse Shark Close-Kin Mark-Recapture (University of Tasmania Create 10 2 570 285 190	Continuous Water Quality Monitoring - II	Great Barrier Reef Foundation	Qualify	60	1	800	400	800	50
	2015/0823-Monitoring the traditional take of finfish spe	cit Australian Fisheries Management	Qualify	60	2	672	400	200	59
VESP Marine Biodiversity Hub Project - D2 - Analyis and University of Tasmania Qualify 10 2 510 255 153	NESP RV2-Grey Nurse Shark Close-Kin Mark-Recaptur	e (University of Tasmania	Create	10	2	570	285	190	50
	NESP Marine Biodiversity Hub Project - D2 - Analyis a	nd University of Tasmania	Qualify	10	2	510	255	153	50





#### Oceans and Atmosphere and Program capability mapping

**Based on project plan data (2014-15)** 



		ULTUR E	ENE	RGY		D &	LTH &	LAN WA	ID &		UFAC- RING	ERAL URCES	OCEA ATMOS	NS & SPHERE	DA	TA61	FACIL	ONAL IITES & CTIONS	NET
OCEANS AND ATMOSPHERE	3		6		1			6		2					1		24		
OCEANS AND ATMOSPHERE		1		3					14		1					7		1	-16
R05P01: Ocean and Climate	2							1					19						
Dynamics														6		2			-14
R05P02: Earth System	•		6																
Assessment									1		1			3					-1
R05P03: Coastal					1			3		1			22		1				
Development and Management		1							11					12		1			-3
R05P04: Marine Resources	1							1					10				1		
and Industries				3										10		4		1	+5
R05P05: Engineering and	·												3				23		
Technology									1					25					+0



#### **KPI#1: Impact Return on Investment**

	Actual			Target		
	2015	2016	2017	2018	2019	2020
CSIRO	4.1	4.1	4.1	4.2	4.2	4.3
OCEANS & ATMOSPHERE	4.6	>4.6	>4.6	>4.6	>4.6	>4.6
Ocean & Climate Dynamics	4.4	4.4	4.4	4.4	4.4	4.4
Earth System Assessment	NA	4.3	4.4	4.4	4.5	4.5
Coastal Development & Management	4.5	4.5	4.5	4.5	4.5	4.5
Marine Resources & Industries	4.7	4.7	4.7	4.7	4.7	4.7
Engineering & Technology	NA	4.1	4.1	4.2	4.2	4.3

**KPI#2: Customer Satisfaction** 

	Actual			Target		
	2015	2016	2017	2018	2019	2020
CSIRO	8.2	8	8	8	8	8
OCEANS & ATMOSPHERE	8.2	>8				
Ocean & Climate Dynamics	NA					
Earth System Assessment	NA	9	9	9	9	9
Coastal Development & Management	NA	NA	NA	NA	NA	NA
Marine Resources & Industries	NA	NA	NA	NA	NA	NA
Engineering & Technology	NA	8.6	8.6	8.6	8.6	8.6

**KPI#3: Active Licences** 

	Actual			Target		
	2015	2016	2017	2018	2019	2020
CSIRO	276	280	290	300	320	350
OCEANS & ATMOSPHERE	1	2	3	3	3	1
Ocean & Climate Dynamics	NA	NA	NA	NA	NA	NA
Earth System Assessment	NA	0	0	0	0	0
Coastal Development & Management	NA	NA	NA	NA	NA	NA
Marine Resources & Industries	NA	NA	NA	NA	NA	NA
Engineering & Technology	NA	1	2	3	3	3



**KPI#4: External Revenue Ratio** 

	Actual			Target		
	2015	2016	2017	2018	2019	2020
CSIRO	38%	39%	40%	41%	43%	45%
OCEANS & ATMOSPHERE	39%	39%	42%	43%	44%	44%
Ocean & Climate Dynamics	43%	42%	43%	43%	44%	44%
Earth System Assessment	29%	33%	35%	36%	36%	36%
Coastal Development & Management	33%	34%	35%	35%	36%	36%
Marine Resources & Industries	42%	42%	43%	43%	44%	44%
Engineering & Technology	42%	42%	42%	43%	44%	45%



**KPI#5: Internal & external Collaboration** 

	Actual			Target		
	2015	2016	2017	2018	2019	2020
CSIRO	1	1.05	1.1	1.15	1.2	1.25
OCEANS & ATMOSPHERE	NA	NA	NA	NA	NA	NA
Ocean & Climate Dynamics	NA	NA	NA	NA	NA	NA
Earth System Assessment	NA	NA	NA	NA	NA	NA
Coastal Development & Management	NA	NA	NA	NA	NA	NA
Marine Resources & Industries	NA	NA	NA	NA	NA	NA
Engineering & Technology	NA	NA	NA	NA	NA	NA

**KPI#6: Diversity & Inclusion** 

	Actual			Target		
	2015	2016	2017	2018	2019	2020
CSIRO	11	12	13	14	15	16
OCEANS & ATMOSPHERE	9	>11	>11	>11	>11	>11
Ocean & Climate Dynamics	10	10	11	11	12	13
Earth System Assessment	10	16	16	17	17	18
Coastal Development & Management	22	23	24	24	25	25
Marine Resources & Industries	8	10	10	12	15	16
Engineering & Technology	5	5	6	6	7	7

# Oceans and Atmosphere and Program Diversity Profile

**KPI#6: Diversity & Inclusion (supplementary information)** 

			Leaders			FTE	All	Staff
	FTE	Female FTE	% Leaders (Female)	NESB FTE	% Leaders (NESB)	Total	ATSI AII staff	% All staff
CSIRO	1102	313	28.4%	179	16.2%	5209	63	1.2%
OCEANS & ATMOSPHERE	83	17	20.5%	11	13.3%	405	3	0.7%
Ocean & Climate Dynamics	16	4	25.0%	3	18.8%	71		0.0%
Earth System Assessment	17	2	11.8%	5	29.4%	78		0.0%
Coastal Development & Management	17	3	17.6%	2	11.8%	99	3	3.0%
Marine Resources & Industries	15	3	20.0%		0.0%	79		0.0%
Engineering & Technology	13	2	15.4%	1	7.7%	69		0.0%



**KPI#7: Innovation Capacity** 

	Actual			Target		
	2015	2016	2017	2018	2019	2020
CSIRO	55%	56%	57%	58%	59%	60%
OCEANS & ATMOSPHERE	52%	54%				
Ocean & Climate Dynamics	52%	52%	53%	53%	55%	55%
Earth System Assessment	52%	55%	55%	60%	60%	60%
Coastal Development & Management	52%	55%	60%	60%	60%	60%
Marine Resources & Industries	52%	55%	60%	60%	60%	60%
Engineering & Technology	52%	53%	53%	54%	54%	55%



**KPI#8: Safety Performance** 

	Actual	Target							
	2015	2016	2017	2018	2019	2020			
CSIRO	14.2	0	0	0	0	0			
OCEANS & ATMOSPHERE	10	0	0	0	0	0			
Ocean & Climate Dynamics		0	0	0	0	0			
Earth System Assessment		0	0	0	0	0			
Coastal Development & Management		0	0	0	0	0			
Marine Resources & Industries		0	0	0	0	0			
Engineering & Technology		0	0	0	0	0			



## Oceans and Atmosphere Budget Validation Template

#### To be completed by BUs ahead of deep dives

Business Unit Budget Validation	Oceans 8	& Atmosp	here											
4 Year Budget including Strategy Adjustments				Budget Validation - Business Unit to complete					Variance					
Oceans & Atmosphere	2015/16	2016/17	2017/18	2018/19	Oceans & Atmosphere	2015/16	2016/17	2017/18	2018/19	Oceans & Atmosphere	2015/16	2016/17	2017/18	2018/19
Direct Appropriation	26,321	26,724	26,730	27,418	Direct Appropriation					Direct Appropriation	- 26,321	- 26,724	- 26,730	- 27,418
External Revenue - CCS	42,554	46,447	48,653	50,594	External Revenue - CCS					External Revenue - CCS	- 42,554	- 46,447	- 48,653	- 50,594
External Revenue - IP	-	-	-	-	External Revenue - IP					External Revenue - IP	-	-	-	-
External Revenue - Other	700	721	743	765	External Revenue - Other					External Revenue - Other	- 700	- 721	- 743	- 765
Total Revenue	69,575	73,892	76,126	78,777	Total Revenue	-	-	-	-	Total Revenue	- 69,575	- 73,892	- <b>76,126</b>	- 78,777
Labour	49,692	50,882	50,842	51,859	Labour					Labour	- 49,692	- 50,882	- 50,842	- 51,859
Operating	19,882	22,156	24,336	26,066	Operating					Operating	- 19,882	- 22,156	- 24,336	- 26,066
Total Expenses	69,575	73,038	75,178	77,925	Total Expenses	-	-	-	-	Total Expenses	- 69,575	- 73,038	- 75,178	- 77,925
					Additional Capex Requirement									
Staffing Levels	2015/16				Staffing Levels	2015/16	2016/17	2017/18	2018/19	Staffing Levels	2015/16			
Target ASL	389				Target ASL					Target ASL	-389			
YTD Actual - 30/09/15	370				YTD Actual - 30/09/15	370				YTD Actual - 30/09/15	0			
					Comments									

Source: CSIRO Finance

