



JWST MIRI IMAGER

Doc. : MICE Management Plan
Ref. : MIRI-CE-00033-CEA
Iss. : 0.3
Date : 12/05/2017

Page : 1/10

MICE The French JWST/MIRI Centre of Expertise Management Plan 2015 - 2019

Reference : MIRI-CE-00033-CEA

Issue : 0.3

Date : 17/05/2017

<i>Prepared by:</i>	Patrice Bouchet	<i>Date:</i>	29/11/09
<i>Approved by:</i>	Pierre-Olivier Lagage MIRI co-PI	<i>Date:</i>	17/05/2017
<i>Authorised by:</i>	Pierre-Olivier Lagage MIRI co-PI	<i>Date:</i>	17/05/2017



JWST MIRI IMAGER

Doc. : MICE Management Plan
Ref. : MIRI-CE-00033-CEA
Iss. : 0.3
Date : 12/05/2017

Page : 2/10

Document Changes Record

Issue	Date	Chapter/page	Change
0.1	16/10/2009		
0.2	24/04/2015	Whole Document	Updated
0.3	12/05/2017	Tables 3.1 & 3.2 (p.7 & 9)	Updated



JWST MIRI IMAGER

Doc. : MICE Management Plan
Ref. : MIRI-CE-00033-CEA
Iss. : 0.3
Date : 12/05/2017

Page : 3/10

Table of Contents

REFERENCE :	1
ISSUE :	1
DATE :	1
1. INTRODUCTION	4
1.1 Scope.....	4
1.2 Acronyms	4
1.3 Documents	5
2. MANAGEMENT PLAN	6
2.1 MICE Organization Flow Chart	6
3. STAFFING	7
3.1 Permanent members:	7
3.2 Non-permanent members:	8
3.3 Others:	9
4. THE “BRIDGING PHASE”	10



JWST MIRI IMAGER

Doc. : MICE Management Plan
Ref. : MIRI-CE-00033-CEA
Iss. : 0.3
Date : 12/05/2017

Page : 4/10

1. Introduction

1.1 Scope

The document MIRI-CE-00011-CEA presents the scientific requirements that must rule the MICE, and the document MIRI-CE-00022-CEA defines how the objectives set will be pursued by this center. Both documents describe the various support tasks that must be fulfilled out by MICE if the community (in particular the French one) is to obtain maximum scientific benefit from the investment in MIRI. The present document is an updated version of MIRI-CE-0003-CEA. It describes the management plan for the French MICE for the period 2015 – 2019. It gives also an estimate of the staffing which are/will be involved and their needs.

1.2 Acronyms

Here below the acronyms used in the document

AIM: Astrophysique et Interactions Multi-échelles
CNES: Centre National d'Études Spatiales
CV : Cryo-Vacuum Tests at GSFC
CWG: Coronagraphs Working Group at STScI
DHAS: Data Handling and Analysis Software
DENSE: Dust Environments Near Supernovae
DSN : Deep Space Network
EC: European Community
ERS: Early Science Release
EU: European Union
ESA: European Space Agency
FM: Flight Model
GSFC: NASA Goddard Space Flight Center
GTO: Guarantee Time Observations
IAP: Institut d'Astrophysique de Paris
IAS: Institut d'Astrophysique Spatiale
IPWG : Imager Pipe Line Working Group
IR: Infrared
JPL: Jet Propulsion Laboratory (NASA/Pasadena)
JWST: James Web Space Telescope
KP : Key programme
LAM: Laboratoire d'Astrophysique de Marseille
LESIA: Laboratoire d'Études Spatiales et d'Instrumentation Associée
MICE: MIRI Centre of Expertise
PI: Principal Investigator
PTCT: Performance Tests & Calibration Team
RAL: Rutherford Appleton Laboratory
RTV: Real Time Viewer
STScI: Space Telescope Science Institute (Baltimore)



JWST MIRI IMAGER

Doc. : MICE Management Plan
Ref. : MIRI-CE-00033-CEA
Iss. : 0.3
Date : 12/05/2017

Page : 5/10

1.3 Documents

1.3.1 Applicable

MIRI-PL-00024-ATC
MIRI-CE-00011-CEA
MIRI-CE-00022-CEA

1.3.2 Reference

MIRI-PL-00009-ATC

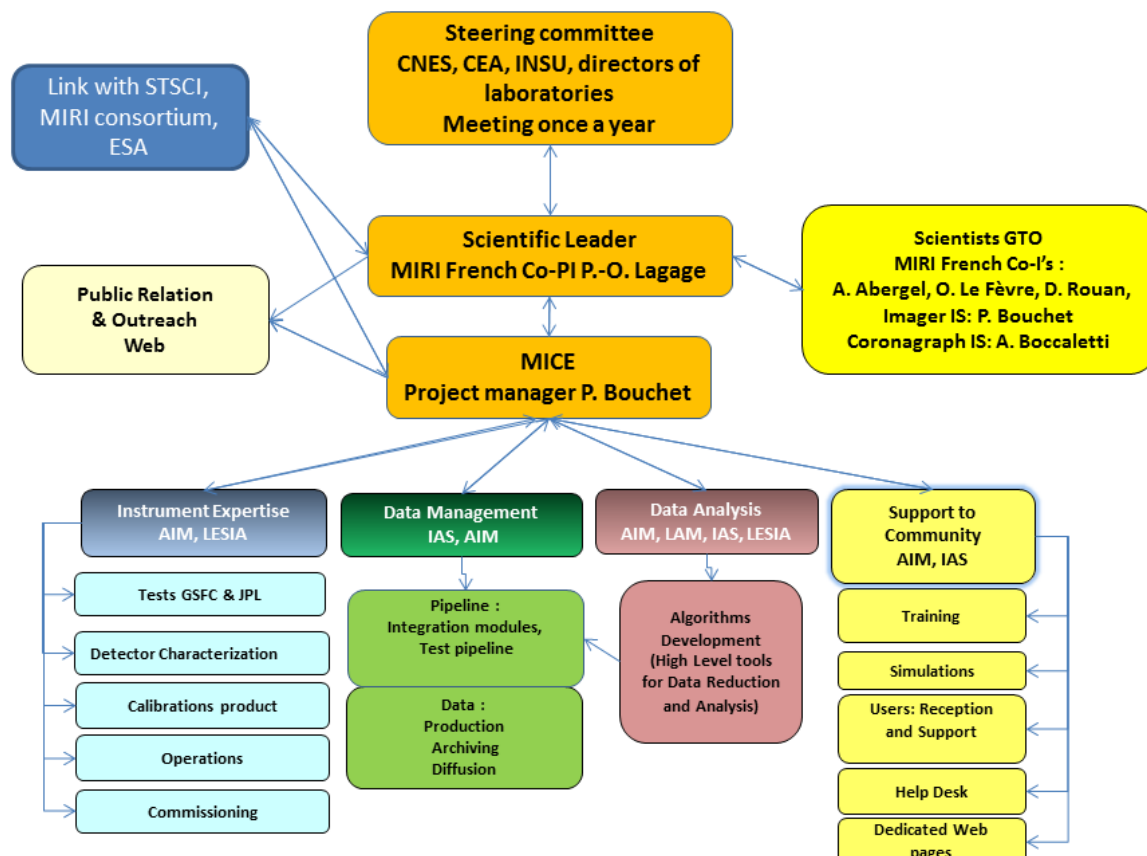
2. Management Plan

MICE is a collaboration between CEA, IAS, LAM, and Paris Observatory (LESIA). It reports directly to the national Co-PI (ie. Pierre-Olivier Lagage) and is affiliated to its home institution, namely the *Service d'Astrophysique* at CEA-Saclay. Internal Reports of activity will be issued at a regular 3 months basis, with copy to the PI and to the MIRI CNES manager. The Steering committee shall meet once a year (CNES, CEA, INSU, Directors of laboratories).

Regular weekly meetings will be held every Monday morning.

2.1 MICE Organization Flow Chart

MICE will be organized as shown in the diagram below:





JWST MIRI IMAGER

Doc. : MICE Management Plan
 Ref. : MIRI-CE-00033-CEA
 Iss. : 0.3
 Date : 12/05/2017

Page : 8/10

3.2 Non-permanent members:

	Name	Activities within MIRI EC & MICE	FTE 2015	FTE 2016	FTE 2017	FTE 2018	FTE Total
RH CDD-Research (3+3 years)	D. Dicken (CEA)	Test & Science team member (Exoplanets); expert detector; pipeline development and data analysis (CV, JPL and commissioning)	0.80	0.80	1.00	1.00	3.60
RH CDD-Research (3 years)	G. Morello (CEA; P2IO)	Exoplanets high level data analysis; data challenges; to become member of the science team (GTO and ERS)	NA	NA	0.25	0.50	0.75
RH CDD AIM CNES (3 years)	TBD	MICE General Activities and support; high level data analysis; to become member of the science team (Supernovae GTO and ERS DENSE)	NA	NA	NA	0.50	0.50
RH CDD AIM GTO, CNES (3 years)	TBD	MICE General Activities and support. GTO exoplanet	NA	NA	NA	0.25	0.25
RH CDD Engineer IAS	B. Hasnoun	Software Pipe line development	0.20	0.20	NA	NA	0.40
RH CDD Engineer CNES	C. Cossou (IAS)	Pipeline; simulator; archiving; member of the test team	NA	0.30	0.90	0.90	2.10
RH CDD IAS	M. Mebsout	Tools for data diffusion	NA	NA	0.50	0.50	1.00
RH CDD IAS, GTO, CNES	TBD	Interstellar Medium, PDRs; to become member of the Science team (GTO & ERS)	NA	NA	0.25	0.25	0.50
RH CDD LESIA (3 years)	TBD	Coronagraph; Imager; high level data analysis.	NA	NA	0	0.75	0.75
RH CDD LESIA (3 years) GTO, CNES	TBD					0.5	0.5
RH CDD LAM (3 years) GTO, CNES	TBD					0.5	0.5
Total non-permanents							10.85
PhD Student	TBD	GTO, PDRs, Modeling	NA	NA	0.05	0.20	0.25
PhD Student (CNES – CEA TBC)	Marine Martin-Lagarde	GTO exoplanets, data reduction			0.25	1	1.25



JWST MIRI IMAGER

Doc. : MICE Management Plan
Ref. : MIRI-CE-00033-CEA
Iss. : 0.3
Date : 12/05/2017

Page : 9/10

3.3 Others:

Besides the above listed staff, a dozen of AIM/SAP permanent scientists which do not belong to the EC are much interested in working on MIRI for imager simulations, and high level data analysis as well as to produce catalogs and physical parameters which will be of great help and benefit for MICE.

Scientists not members of the EC teams but interested in collaborating with MICE	Cosmology and Evolution of galaxies (D. Elbaz, E. Lefloch, E. Daddi, S. Juneau...)	Images simulations in view of multi wavelengths analysis; follow up of the European ASTRODEEP program for the CANDEL fields; put at the community's disposal all information related to the physical properties of galaxies.
	Interstellar Medium and star formation (P. André, S. Menchikov, A. Maury, S. Madden, ...)	Simulations and high level data analysis.



JWST MIRI IMAGER

Doc. : MICE Management Plan
Ref. : MIRI-CE-00033-CEA
Iss. : 0.3
Date : 12/05/2017

Page : 10/10

4. The “Bridging Phase”

During 2015 – 2017 the EC activities will be run under the so-called “Bridging Phase”: at the MIRI program beginning ESA committed itself to cover the supplementary costs that could derived from events for which the consortium would not have been responsible. Hence, the additional cost caused by the delay in the launch of JWST which was NASA’s responsibility falls to ESA. ESA will therefore take into accounting a 3 years delay for 20 fte/year and the costs of the missions that are not science related (53 k€/year for the whole EC).

The activities of the EC and corresponding expenditures during the “Bridging Phase” will be as follows:

A0	WorkPackage	3 fte/an durant 3 ans
A0	National and consortium Project management	0.5 fte
A1	General Support to GSFC	0.2 fte
A2	General Support to STScI	0.5 fte
A3	Third ISIM Cryo Test	0.8 fte
A4	Key Documentation updates and discussions	0.5 fte
A5	FPS Calibration and Characterisation Test Support	3 fte
A7	Increase in Calibration work due to sensitivity issue	1 fte
A9	Extensive/mature calibration pipeline development for the launch	3 fte

As far as France is concerned, it is clear that most of these activities fall under MICE’s mission.