



Progress Meeting 1

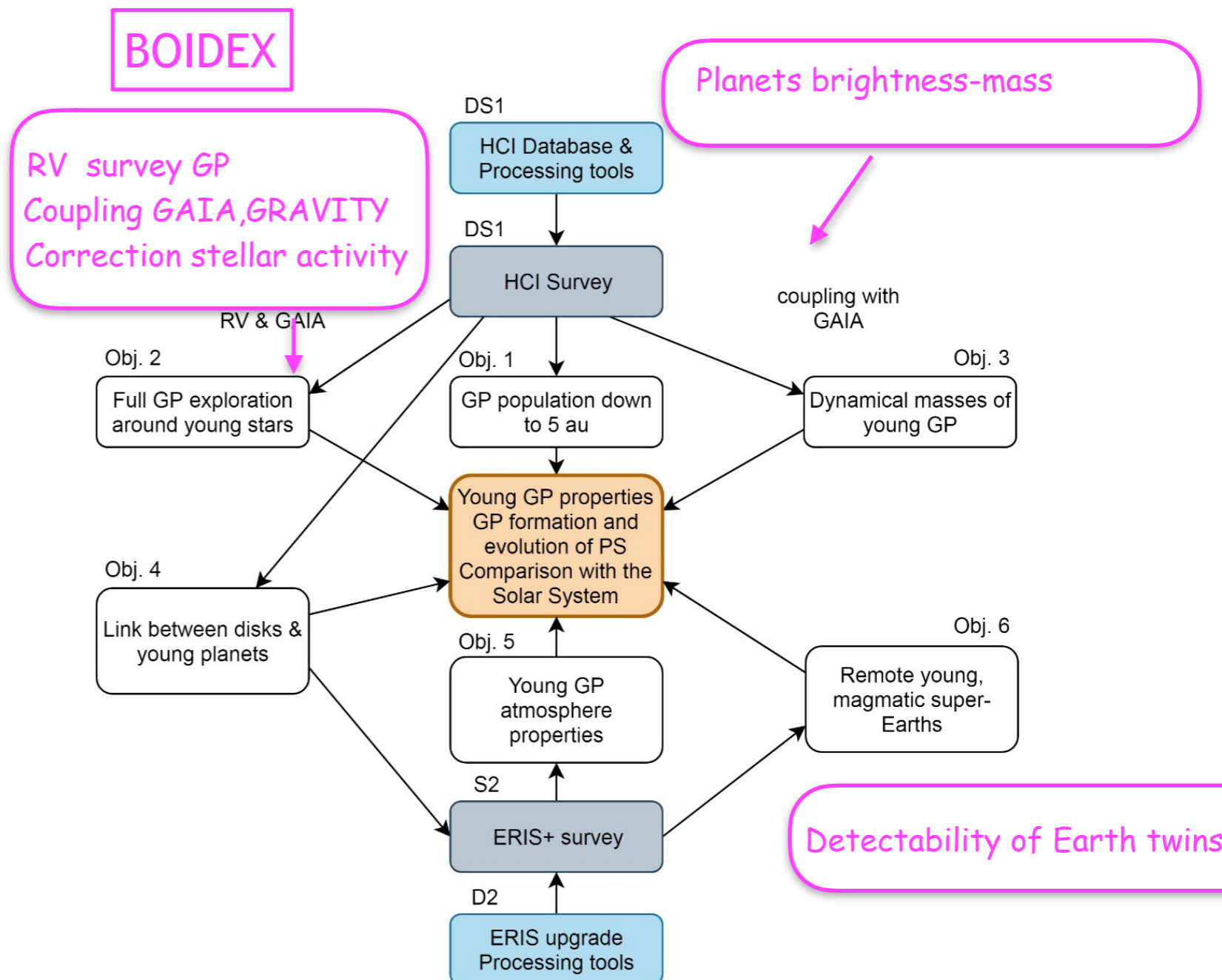
December, 17th, 2020

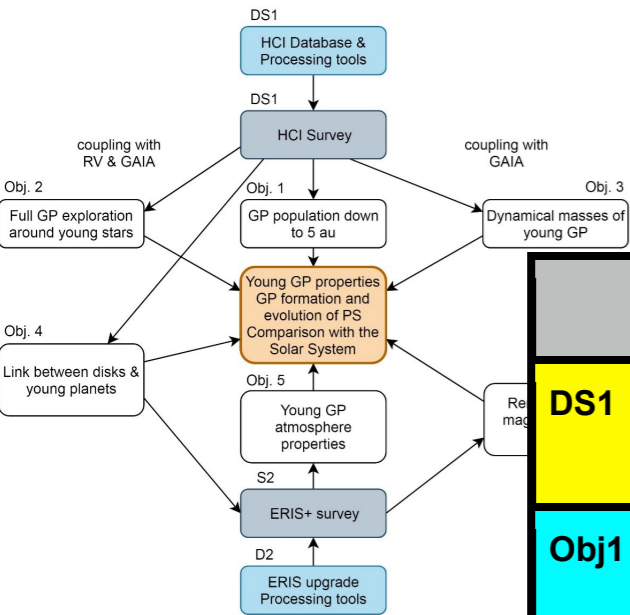
Agenda

- Work Breakdown Structure
- Progress since KO
- Rules wrt tools (and data)
- AOB
- Actions

COBREX objectives and WPs

- Obj.1 Determine the GP radial distribution and frequency down to 5 au
- Obj.2 Get a complete view of GP population, from hundredths to hundreds of au ; estimate GP total rate
- Obj.3 Test masses and brightnesses relationships
- Obj.4 Study planets-disks link
- Obj.5 Determine imaged GP atmospheric properties
- Obj.6 Explore the possibility to image young Earth





	Y1 (2020-2021)	Y2 (2021-2022)	Y3 (2022-2023)	Y4 (2023-2024)	Y5 (2024-2025)		
DS1	Infrastructure Processing tools	Data processing Publications of Planet discoveries	Cont'd GPI				
Obj1			Analysis SPHERE	Comparison to models SPHERE Analysis GPI Publications	Comparison to models GPI Global analysis	Publications	
Obj. 2	Software preparation MESS3	Early analysis with DR3	Cont'd Publications		SW Preparation MESS4	Analysis with DR4 and DS1 outputs	Publications
Obj.3			Early studies with DR3 and DS1 outputs Publications		Complete analysis with DR4 and A1 outputs	Cont'd Publications	
D2	ERIS upgrade	Instrument tests					
	MM processing tools						
S2			ERIS+ survey preparation	ERIS+ survey			
Obj. 4			Analysis of ERIS+ Analysis of SPHERE and GPI disks - Publications			Publications	
Obj.5			Grids of spectra - ERIS+ vipa obs atmospheres - Publications				
Obj. 6			Detectability studies	Search in DS1 and S2 outputs		Publications	

Work Breakdown Structure

- WPO: Management
- WP1: Survey infrastructure and tools
 - WP1.1 Cobrex DC infrastructure
 - WP1.2 SW dev for exoplanet survey
 - WP1.3 SW for disk surveys
- WP2: ERIS dev
 - WP2.1 Eris Upgrade
 - WP2.2 MM Software tools
- WP3: Exoplanets demographics
 - WP3.1 GP Survey : stats of GP
 - WP3.2 Full exploration of GP
 - WP3.3 Observability of remote magma Earths
- WP4: GP characterization
 - WP4.1 Dynamical masses
 - WP4.2 Orbital properties
 - WP4.3 Atmosphere/interiors modelling
- WP5: Disks studies
 - WP5.1 Disks survey
 - WP5.1 Link with planets
 - WP5.1 Individual cases
- WP6: PS
 - WP6.1 Comparison to formation models
 - WP6.2 Comparison to SS

Progress

- WPO: Management
 - Minutes KO: <https://docs.google.com/document/d/1KKOtaNQv-vSkSeCQnV45A4DEjv2mGBL2/edit#heading=h.c2hojfr3smvl>
 - LOGO
 - Website in prep: <https://cobrex.lesia.obspm.fr/?lang=fr>
 - Hirings:
 - Auditions for ING1 this week
 - Announcement (CNRS) of Post Doc position R&D algo, to couple PACO and ML
 - AO for internships 2021: pre-PhD1, pre-PhD2, pre-PHD3, MM on SINFONI data, GP for RV analysis (BOIDEX): issued; 2 candidates selected, auditions in progress for the others.
 - AO for PhD1, PhD2, PhD3 in prep; to be announced end of Dec/ Jan; CNRS: mid Jan ? What about PhD2' (Benjamin) ?
 - Preparation of a document @ tools (cf below)
 - Progress meetings : monthly, First Friday, 3pm. OK ?
- WP1: Survey infrastructure and tools
 - WP1.1 Cobrex DC infrastructure : servers received; data storage (Nadege ?)
 - WP1.2 SW dev for exoplanet survey :
 - Discussions about strategy necessary : use of PACO + other algorithms ?
 - Discussions about ML on PACO current outputs started
- WP2: ERIS dev
 - WP2.1 Eris Upgrade : techn. doc+formal presentation to IPAG (15/12), well received; discussions with LESIA on cry-tests (14/12). We will need ESO to develop instrument control SW + templates.
 - WP2.2 MM Software tools: info: no ADI tools for SPIFFIER from ESO
- WP4: GP characterization
 - WP4.1 and 2 Dynamical masses & orbital properties : upgrade of MCMC to include Hip-Gaia in progress

Rules @ Data

- Les data produites par COBREX DC sont la propriété de COBREX. Seront MAD du DC après publications.
- Collaborations envisagées à ce jour :
 - Avec CRAL
 - SHINE pour la partie SHINE data
 - ...

Rules @ outils

Charte d'utilisation des outils partagés

- Nécessité d'un accord sur utilisation des outils.
- Document de référence à débattre et valider
- Classification des différents outils
- Règles d'utilisation associées

<https://docs.google.com/document/d/1eBhO2QKKdWrsMnJG5rpx4tNFH9SSOmgP6cd-Dug1-zw/edit>

Action (KO)	WP	Responsible ?	Deadline	Comments	Status
Webpage architecture		AMI, GCh	Nov. 30		closed
ERIS+ internal documentdocument		LJo	Nov. 15		closed
ERIS+ proposal		AML	Dec, 30		pending IPAG feedback
ENG1 AO		DAI	Nov. 10		closed
List of hiring in 2021		AML	Nov. 15		closed
Submit internship offers		AML	asap	inputs needed	closed
Check GPI timestamps		JMa	asap	done by GCh	closed
Approche inverse pour IFS in COBEX?		MLa/AML	31 Jan 2021		closed
Converger sur prop de thèse modélisation		BCh/AML	asap		
Creuser hypothèses modèles Linder		BCh	asap		in progress
Suivi link with VIPA ?		AML/ACa			
ERIS+ tests à froid ?		LJo/ABo	asap		in progress
Check centrage derriere masque		LJo/AML	asap		pending
Check cold stop		LJO/AML	asap		pending
Sigle (vote)		AML	Nov, 13		closed

Action (17/12/2020)	WP	Responsible ?	Deadline	Comments	Status
Complete Website	WP0	AML,GCh	Jan, 15		
Complete intern selection	WP0+	AML + all	Jan, 15		
Issue announc. PhD (CNRS +exoplanets+AAS?) + PD1		AML+all	Jan, 15		
Final version charte on tools inputs		AML	Jan,10		
Converge on SW 1.2 strategy : which add tool ?		AML, MLa, PDe, ABo, GCh	Mar, 31		
Liste questions Ric Davies		all	Dec, 25		
Doc ERIS+ ESO		AML,GCh,MBo	Jan, 30		
PhD2'		BCh, SMa	Dec, 25		
Check accès serveurs pour encadrants de thèse		MBo,ABo, MLa	Feb, 5		

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Converger sur prop de thèse modélisation PHD2'		BCh/AML	Dec, 25		
Creuser hypothèses modèles Linder		BCh	asap		
Suivi link with VIPA ?		AML/ACa			
ERIS+ tests à froid ?		LJo/ABo	asap		
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