Pageacence Pageacence M	Light Microscopy Mesoscopic Functional Imaging and specialised	Electron Microscopy Ultrastructural Ultrastru	Multimodal correlative microscopy Light Microscopy and Live-cell	micro-MRIMRS micro-MRIMRS (Field above 7 (Field below 7		Animal and plant Imaging In vivo optical	mic	ro-SPECT- Intravital	MRIMRS MRIMRS	Human Imaging	population micro-MR	d materials imaging using biomedical tect	hnolgies	Other Technologies Image Data and Im Sample	age Analysis Services Biological Image Data
Deconvolution Single Molecule L localization widefield microscopy microscopy (DWM) o	maging Label-nee imaging memosologies	mayor in 20 Interest III. Inte	DM maging and EM X-ray and EV	anatomical, anatomical, volumetric,	micro-SPECT micro-CT	micro-US imaging PAI Single wavelength	micro-PET/MRI micro-PET/CT CT			MRI-PET MEG	PET/CT2 imaging labove 2 anatomic volumetri	() (Selow 71) micro-CT d, anatomical, c, volumetric, etric morphometric MRI dual energy CT	PG MSI	characterisation Medical Image Date	services Services
(DWM) microscopy microscopy in (DWM) o	Coherent Anti-Stokes Imaging (SPMI Raman Scattering or dSLSM) microscopy* (CARS) High throughput microscopy/high content screening (HTM/HCS)	samples (Tokuyasu (topography) Method)	pre-embed (Communication (Communicat	anatomical, anatomical, volumetric, marphometric, marphometric IIF morphometric IIF malestrometric IIF malestrometric mapping - 11, 12, spin-lock techniques (IIII to techniques IIIC madotracers (IIII) to techniques IIIC madotracers (IIII) and IIII malestrometric IIII malestrometric IIII malestrometric IIII malestrometric IIII malestrometric madotracers (IIII) and IIII malestrometric madotracers	99mT: radiotracers dual energy CT	Single	18F 18F 99 radiotracers radiotracers rad	sTc intravital otracers microscopy	Anatomical, volumetric, morphometric MRS magnetic morphometric MRS red magnetic mapping -TL, T2, ppin-lock techniques (T2-ho etc) (T2-ho etc) (T2-ho etc) rad	18F radiotracers	18F volumetri nadiotracers MRI	etric morphometric MRI dual energy CT		Atomic Force Microscopy" (AFM) Challenges Framer	rork Image Analysis -bio * (PCS)
Laser scanning depletion p confocal microscopy microscopy to		TEM of cryo- immobilized section Immuno-gold EM on resin sections Cryo TEM Elemental analysis	post- embedding	relaxation relaxation mapping -T1, T2, spin-lock techniques to (T2 to etc) (T2 to etc) radiotracers	111in photon radiotracers countine CT	Color Doppler, (NR II) / Short Power Doppler Wave Infrared (2D, 3D) US (SWIR) Imaging RN	ne ne m	In Confocal	mapping - T1, mapping - T1, T2, spin-lock T2, spin-lock techniques techniques 110	110	11C relaxation radiotracers mapping	relaxation photon mapping counting CT		Mass spectrometry- based imaging* (MS2) Image analysis - m	
(ESCANCLESM) (STEED) (C Reversible optical Spinning dak fluorescence P	(US) Intraser (MSL 1) Photoscostic imaging* (DN) Countative Phase Tuorescence Recovery after Photoblesching (FRAP)		Cryo-CLEM	(11mo etc) (11mo etc) radiotracers			radiotracers radiotracers rad	Marath				spin-lock		Micro X-ray Fluorescence	80 ° (PUS)
	imaging* (PAI) Quantitative Phase Plucrescence Recovery after -bio Imaging* (QPI) Photobleaching (FRAP)	pre-embedding immunolabelling		microstructural Microstructural 68Ga /cliffusion MRI /dliffusion MRI radiotracers	modelling/quan titation spectral CT	Pulsed Wees Doppler US Indigent (BLI) Doppler US Integring (BLI) Multi- wavelength Motion Mode US Chemiluminer Chemiluminer FNU	SSGs SSGs mo radiotracers radiotracers tita	or kinetic delling/quan Widefield tion microscopy	microstructural microstructural 680 /diffusion MRI /diffusion MRI radi	68Ga tracers radiotracers	68Ga spin-lock technique radiotracers (TIrho et	spin-lock s techniques () (Tirho etc) spectral CT		Spectrometry* (XRF) Population imaging	
Shuckared Burnination microscopy* (SIM) 4PI microscopy	Fourier transform Fluorescence Lifetime Imaging inhared imaging (FTIR) (FLIM)	FIE-SEM encoded EM Cryo FIE probes (e.g. APEX)		perfusion MRI perfusion MRI with or without with or without 180 contrast agent radiotracers	Other cone-beam CT	Motion Mode Chemiuminesc Mode (20, 3D) US ence Imaging PNI	180 180 radiotracers radiotracers Oth	er	perfusion MRI perfusion MRI with or without with or without 15C contrast agent contrast agent rad	150 tracers radiotracers	250 microstru radiotracers /diffusion	ctural microstructural MRI /diffusion MRI cone-beam CT		Traction Force Microscopy (TFM)	
				perfusion MBI with or without with or without with or without contrast agent contrast allowed Volume (CMV) (CMV							Chemical Exchange	Chemical Exchange Saturation (251), Stander (251), tion Magnetization (IT) Transfer (MT)			
Total internal neflection fuorescence microscopy (TIRF)	Polarization Fluorescence (cross)-correlation microacopy (PM) spectroscopy (FCSFCCS)	STEM breography pre-embed CLEM		and Cerebral and Cerebral Blood Volume Blood Volume (CBV) (DSC- (CBV) (DSC- B92)		Non-Linear Cherenkov Contrast Mode radiation PA spectral Imaging unmixing	892r 892r		Functional MRI Functional MRI Oth		Saturation Transfer (Magnetic	Saturation (EST), Transfer (CEST), ition Magnetization			
microscopy (1847)				MIN, ASL) MIN, ASL) INDUSTRIEN		PA EXV Mode - Photoscountic	radiotracers radiotracers			r Utser	Other Institute (at) manuser (act)			
Two-photon microscopy (2P)	Second/Third Harmonic Generation (SHG/THG) Intravital Microscopy (F/M)	Array tomography post- embedding CLEM		Functional MRI Functional MRI radiotracers		Volumetric Kilohertz analysis OCT Visualization	892r 892r radiotracers radiotracers 64Cu 64Cu radiotracers radiotracers		Simultaneous EEG-6MB1		MRS/MRS	I MRS/MRSI			
				Chemical Chemical Exchange Exchange					cerebral Blood cerebral Blood Flow (NCBF) Flow (NCBF) and Cerebral and Cerebral						
Objective-coupled planar illumination and planar illum	Stimulated Raman Scattering (SRS) Voltage(pNIon Imaging			Chemical Exchange Subunage Saturation Transfer (CSST), Magnetization Magnetization Transfer (MT) Transfer (MT) Utaken Magnetization Transfer (MT) Transfer (MT) Utaken Magnetization Transfer (MT) Transfer (MT) Utaken MT		imaging guided Volumetric surgery analysis	Tracer kinetic modelling/quan titation titation		Blood Volume Blood Volume (CBV) MRI (DSC- (CBV) MRI (DSC- MRI AGI) MRI AGI		Hyperpoli	rized Hyperpolarized			
Increased resolution confocal microscopy/Image									Dynamic Dynamic Contrast Contrast		Non-hydn MRI techn	rized Hyperpolarized M80 sept Non-hydrogen Non-hydrogen (11C, 195, 1 23Ns, 31P)			
Scanning microscopy Latics light-sheet	Microdissection			MRS/MRSI MRS/MRSI isotopes Hyperpolarized Hyperpolarized			Theranostic Theranostic Isotopes Isotopes		MRI MRI CEST, MT		23Na, 31	(110, 100,) 23Na, 31P)			
(c15)	High-speed Imaging			MR(S)I Other Non-hydrogen Non-hydrogen MRI and MRS MRI and MRS			uener Other								
Chycline Caughed Control Contr	Imaging at Biosafety Level >1			MRS/MRSI MASS/MRSI Theranostic stoppes Hyperpolarized Hyperpolarized Chier MRS/MI Machight Ingers MRS/MI Machight Ingers MRS/MI Machight Ingers Stockhalpus (15K, 19K, 19K) 23Ne, 31P) 23Ne, 31P)					MPS/MRSI MRS/MRSI						
				Quantitative Quantitative Susceptibility Susceptibility Mapping (QSM) Mapping (QSM)					Non-hydrogen M83 techniques Hyperpolarised (13C, 19F,						
	Photomanipulation			snapping (QSM) Mapping (QSM)					MES_MASS MASS_MASS Non-hydrogen Mall techniques (124, 187 Mass_MASS_MASS_MASS_MASS_MASS_MASS_MASS_MA						
	Anisotropy/Polarization Microscopy			Cardiovascular Cardiovascular MRI					techniques Quantitative (13C, 196, Susceptibility 23Na, 31P) Mapping (QSM)						
Existing Technology - no change Existing Technology - name change city Existing Technology - name design rety Existing Technology - nendeligentialitin Technology not in porticle yet - to go through PCS	Phosphorescence Lifetime imaging (PLIM)								countitative Succeptibility Cardiovascular Mapping (CSM) Mili						
Existing Technology - name change only Existing Technology	Feedback microscopy								Cardiovascular Cardiovascular MRI MRI						
- recategorisation Technology not in portfolio yet - to go terrunt DTS	Expansion Microscopy Timus Classics														
inogur co	Transit Crossing														
		Entries in Level 3 will be integrated into the app some blomed technologies have different num!	lication form, so this is the entry that can be selected a ers of levels	a technology of choice by the user											
		biomed technologies list only indicative, it shoul- where to put intravital microscopy? In the bioms	dication form, so this is the entry that can be selected a era of levels of be checked what actually available at the nodes in to digroup, it was suggested it should appear also under not the portfolio (but will go into PCS scort) ould be desired, but this would require much effort to o	rms of sub-technologies and at the clinical level (*) a preclinical imaging	d discussion is still needed to decide	where to stop with the levels and granularity									
		3 Levels for biomedical imaging technologies w	n or the particula (but will go into PLS scori) ould be desired, but this would require much effort to a	olect all the needed information from the Nodes, and	the list of selectable technologies wo	uld be completely different from the current one. For the	is reason in the group of blomed techn	ologies it has been decided that for the mor	ment 2 levels will suffice, provided that details	descriptions of technologies and sub-techn	nologies are available on the portal				











