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* Milestones as project planning old

SYSTEM	item	milestone	2014	Sept-2015	number	fraction achieved	integral	com
RICH	CLARO + Front-End Board	"EDR 7th of Oct"	Oct-14	Oct-14	1	1	1	http
RICH	Elementary Cell	"EDR 16th of Oct Baseboard+FEB+Backboard mechs + thermal"	Oct-14	Oct-14	2	1	2	http
MUON	Spare MWPC	start production (PRR)	Feb-15	Feb-15	3	1	3	24-F
SCIFI	prototype module	Large size prototype module (>= 2.5 x 0.54 m2)	Apr-15	Apr-15	4	1	4	http
CALORIMETER	Front-End ASIC	EDR	Apr-15	Apr-15	5	1	5	was
VELO	sensors	Sensor and thinned bump bonding EDR	Apr-15	May-15	6	1	6	http
UPSTREAM TRACKER	SALT Chip	SALT EDR	May-15	May-15	7	1	7	http
UPSTREAM TRACKER	FLEX cables	FLEX CABLE EDR	May-15	May-15	8	1	8	http
UPSTREAM TRACKER	Staves	Stave EDR	May-15	May-15	9	1	9	http
SCIFI	"Fibres mats modules"	Joint EDR	Jun-15	Jun-15	10	1	10	http
UPSTREAM TRACKER	Sensor	SENSOR EDR	Jun-15	Jun-15	11	1	11	http
UPSTREAM TRACKER	ELECTRONICS	PEPI/LV EDR	Jun-15	Jun-15	12	1	12	http
VELO	electronics	ASIC EDR	Jul-15	Jul-15	13	1	13	
RICH	MaPMT	Place MaPMT order and start production	Mar-15	Oct-15	14	1	14	
VELO	cooling substrate	Cooling Substrate EDR	Jun-15	Oct-15	15	1	14	
MUON	nSYNC	EDR	Jun-15	Nov-15	16	1	15	
MUON	nODE	EDR	Jun-15	Nov-15	17	1	16	
MUON	nPDM	EDR	Jun-15	Nov-15	18	1	17	
MUON	nSB	EDR	Jun-15	Nov-15	19	1	18	
VELO	electronics	hybrid EDR	Jul-15	Nov-15	20	1	19	
VELO	electronics	Velopix submission 1	Nov-15	Nov-15	21	0	0	
RICH	CLARO + Front-End Board	PRR	Jan-15	Jan-16	22	0	0	
UPSTREAM TRACKER	Integration	Cooling EDR	Oct-15	Jan-16	23	1	20	
DATA PROCESSING	Trigger	"1st Bi-annual update (CPU growth code performance strategy alternative platforms review optimisation tasks bandwidth division)"	Feb-16	Feb-16	24	0	0	
MUON	nSYNC	prototype submission	Jul-15	Feb-16	25	1	21	
RICH	Elementary Cell	PRR	Jan-15	Feb-16	26	0	0	
RICH	RICH1 Mechanics	"EDR incl Gas encl. Phot boxes Phot funnel Interfaces"	May-15	Feb-16	27	0	0	

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RICH	RICH2 mechanics	EDR	Nov-15	Feb-16	28	0	0	
UPSTREAM TRACKER	Sensor	SENSOR PRR	Dec-15	Feb-16	29	0	0	
UPSTREAM TRACKER	SALT Chip	128 ch. ASIC submission	Jul-15	Feb-16	30	1	22	
DATA PROCESSING	Optical fibres	Long distance operational reliability	Feb-16	Feb-16	31	1	23	
SCIFI	"Fibres mats modules"	Fibre mat PRR	Jan-16	Mar-16	32	1	25	
UPSTREAM TRACKER	Integration	UT Box and frame EDR	Mar-16	Mar-16	33	0	0	
MUON	additional shielding	EDR	Oct-15	Apr-16	34	0	0	
SCIFI	SiPM + Electronics + ROB	Joint EDR	Dec-15	Apr-16	35	1	26	
UPSTREAM TRACKER	ELECTRONICS	PEPI/DCB EDR	Jan-16	Apr-16	36	0	0	
DATA PROCESSING	Event-building	Event-building with 32-port switch in at least one technology	Oct-15	May-16	37	1	24	
RICH	Photon Detector Module	"EDR Optoelectronic chain module + assembly"	Mar-15	May-16	38	0	0	
RICH	Digital board	"EDR DB hardware with basic firmware + ECS "	Jan-15	May-16	39	0	0	
SCIFI	"Fibres mats modules"	Module PRR	Mar-16	May-16	40	0	0	
UPSTREAM TRACKER	Sensor	type A prepr subm.	Jul-15	May-16	41	0	0	
UPSTREAM TRACKER	Staves	Instrumented stave PRR	Feb-16	May-16	42	0	0	
VELO	sensors	Sensor PRR	Oct-15	May-16	43	0	0	
DATA PROCESSING	Event-building	Software scalability 600 nodes	May-16	May-16	44	0	0	
CALORIMETER	Front-End board (FEB)	EDR	Sep-15	Jun-16	45	0	0	
CALORIMETER	Control Board (CB)	EDR	Jan-16	Jun-16	46	0	0	
CALORIMETER	"HV Monitoring Calib GBT"	EDR	Jan-16	Jun-16	47	0	0	
SCIFI	SiPM + Electronics + ROB	Cold box and ROB EDR	Feb-16	Jun-16	48	0	0	
UPSTREAM TRACKER	FLEX cables	FLEX CABLE PRR	Jan-16	Jun-16	49	0	0	
VELO	cooling substrate	Colling Substrate PRR	Sep-15	Jun-16	50	0	0	
MUON	additional shielding	launch order (PRR)	Feb-16	Aug-16	51	0	0	
CALORIMETER	Front-End ASIC	PRR	Sep-15	Sep-16	52	0	0	
RICH	RICH1 Mechanics	PRR	Oct-15	Sep-16	53	0	0	

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RICH	RICH2 mechanics	PRR	Jun-16	Sep-16	54	0	0	
UPSTREAM TRACKER	Hybrid	128 CH HYBRID EDR	Oct-15	Sep-16	55	0	0	
UPSTREAM TRACKER	SALT Chip	SALT PRR	Mar-16	Sep-16	56	0	0	
VELO	electronics	Velopix Submission 2.1 (final submission) (PRR)	Apr-16	Sep-16	57	0	0	
UPSTREAM TRACKER	SALT Chip	SALT production starts	Oct-16	Oct-16	58	0	0	
VELO	electronics	"Data cable hybrid OPB PRR"	Oct-16	Oct-16	59	0	0	
CALORIMETER	Front-End ASIC	start production	Nov-16	Nov-16	60	0	0	
MUON	electronics	Full electronics chain tested	Jun-16	Nov-16	61	0	0	
CALORIMETER	Front-End board (FEB)	PRR	Jan-16	Dec-16	62	0	0	
RICH	Digital board	PRR	Aug-15	Dec-16	63	0	0	
SCIFI	Frames	EDR	Oct-16	Dec-16	64	0	0	
UPSTREAM TRACKER	Hybrid	128 CH HYBRID PRR	May-16	Dec-16	65	0	0	
VELO	detector mechanics	detector mechanics EDR	Oct-15	Dec-16	66	0	0	
CALORIMETER	Control Board (CB)	PRR	Jul-16	Jan-17	67	0	0	
CALORIMETER	"HV Monitoring Calib GBT"	PRR	Jul-16	Jan-17	68	0	0	
CALORIMETER	"HV Monitoring Calib GBT"	production	Jan-17	Jan-17	69	0	0	
UPSTREAM TRACKER	Hybrid	hybrid production starts	Jan-17	Jan-17	70	0	0	
VELO	module	Module EDR	Nov-15	Jan-17	71	0	0	
MUON	nSYNC	Final submission (PRR)	Dec-16	Mar-17	72	0	0	
MUON	nODE	start production (PRR)	Dec-16	Mar-17	73	0	0	
MUON	nPDM	start production (PRR)	Dec-16	Mar-17	74	0	0	
MUON	nSB	start production (PRR)	Dec-16	Mar-17	75	0	0	
UPSTREAM TRACKER	FLEX cables	first batch of cable production completed	Mar-17	Mar-17	76	0	0	
UPSTREAM TRACKER	ELECTRONICS	PEPI electronics PRR	Nov-16	Mar-17	77	0	0	
VELO	RF foil	RF foil PRR	Sep-16	Mar-17	78	0	0	
VELO	detector mechanics	detector mechanics PRR	Feb-16	Mar-17	79	0	0	
SCIFI	SiPM + Electronics + ROB	ROB Finish production of components	Apr-17	Apr-17	80	0	0	
SCIFI	SiPM + Electronics + ROB	SiPM Series (100%) delivered	Apr-17	Apr-17	81	0	0	
SCIFI	SiPM + Electronics + ROB	PACIFIC+electronics PRR	Sep-16	Apr-17	82	0	0	
			Feb-16	May-17	83	0	0	

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DATA PROCESSING	Generic readout board	10% of boards produced and tested						
SCIFI	"Fibres mats modules"	100% fibres delivered (11'000 km)	May-17	May-17	84	0	0	
DATA PROCESSING	Farm and Data centre	Container selected; start construction of data centre building	May-17	May-17	85	0	0	
SCIFI	Frames	Assembly zone at P8 available and equipped	Jun-17	Jun-17	86	0	0	
UPSTREAM TRACKER	FLEX cables	FLEX cable production completed	Jul-17	Jul-17	87	0	0	
CALORIMETER	Front-End board (FEB)	start production	Aug-17	Aug-17	88	0	0	
SCIFI	"Fibres mats modules"	100% modules produced	Aug-17	Aug-17	89	0	0	
VELO	module	Module PRR	Jul-16	Aug-17	90	0	0	
VELO	module	Module production site qualification	Oct-17	Oct-17	91	0	0	
DATA PROCESSING	Event-building	"Test in HPC 400 nodes at least 20 Tb/s"	Oct-17	Oct-17	92	0	0	
CALORIMETER	Control Board (CB)	start production	Nov-17	Nov-17	93	0	0	
DATA PROCESSING	Generic readout board	Production start	Nov-17	Nov-17	94	0	0	
DATA PROCESSING	Computing	TDR	Feb-17	Nov-17	95	0	0	
SCIFI	SiPM + Electronics + ROB	PACIFIC first production chips available for mounting	Jan-18	Jan-18	96	0	0	
DATA PROCESSING	Trigger	"2nd Bi-annual update (CPU growth code performance strategy alternative platforms review optimisation tasks bandwidth division)"	Feb-18	Feb-18	97	0	0	
VELO	module	Module-base integration PRR	Mar-18	Mar-18	98	0	0	
SCIFI	Frames	Start module installation on C frames	Apr-18	Apr-18	99	0	0	
UPSTREAM TRACKER	Hybrid	hybrid mounting completed	May-18	May-18	100	0	0	
SCIFI	Frames	"12 frames mechanics assembled"	Jun-18	Jun-18	101	0	0	
UPSTREAM TRACKER	Sensor	sensor production completed	Jul-18	Jul-18	102	0	0	
UPSTREAM TRACKER	Staves	1/2 half of instrumented modules ready	Aug-18	Aug-18	103	0	0	
DATA PROCESSING	Computing	Computing model for the Run 3	Aug-18	Aug-18	104	0	0	
DATA PROCESSING	Farm and Data centre	Decide on readout network technology	Sep-18	Sep-18	105	0	0	
DATA	Trigger	Decision on output	Sep-18	Sep-18	106	0	0	

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PROCESSING		bandwidth and on output data flows											
VELO	module	Module production complete	Dec-18	Dec-18	107	0	0						
CALORIMETER	Installation	ready for installation	Aug-18	Feb-19	108	0	0						
MUON	Installation	ready for installation	Aug-18	Feb-19	109	0	0						
UPSTREAM TRACKER	Staves	stave instrumentation completed	Mar-19	Mar-19	110	0	0						
RICH	Installation	ready for installation	Aug-18	Apr-19	111	0	0						
UPSTREAM TRACKER	ELECTRONICS	PEPI electronics completed and ready	Apr-19	Apr-19	112	0	0						
DATA PROCESSING	Generic readout board	Production is over	May-19	May-19	113	0	0						
SCIFI		ready for installation	Aug-18	May-19	114	0	0						
UPSTREAM TRACKER	Installation	ready for installation	Jan-19	Jun-19	115	0	0						
VELO	module	Module-Base integration complete	Jul-19	Jul-19	116	0	0						
DATA PROCESSING	installation	Online ready for sub-detectors commissioning	Jan-19	Aug-19	117	0	0						
VELO	Installation	ready for installation	Aug-18	Jan-20	118	0	0						
DATA PROCESSING	Trigger	Trigger configuration for startup	Jan-19	May-20	119	0	0						
DATA PROCESSING	Installation	Online system ready for data-taking	Jan-20	Aug-20	120	0	0						

year	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
milestones	2	2	2	3	3	5	9	12	13	13	13	15	21
milestones achieved	2	2	2	3	3	5	9	12	13	13	13	14	21

-- RolfLindner - 2015-11-24

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