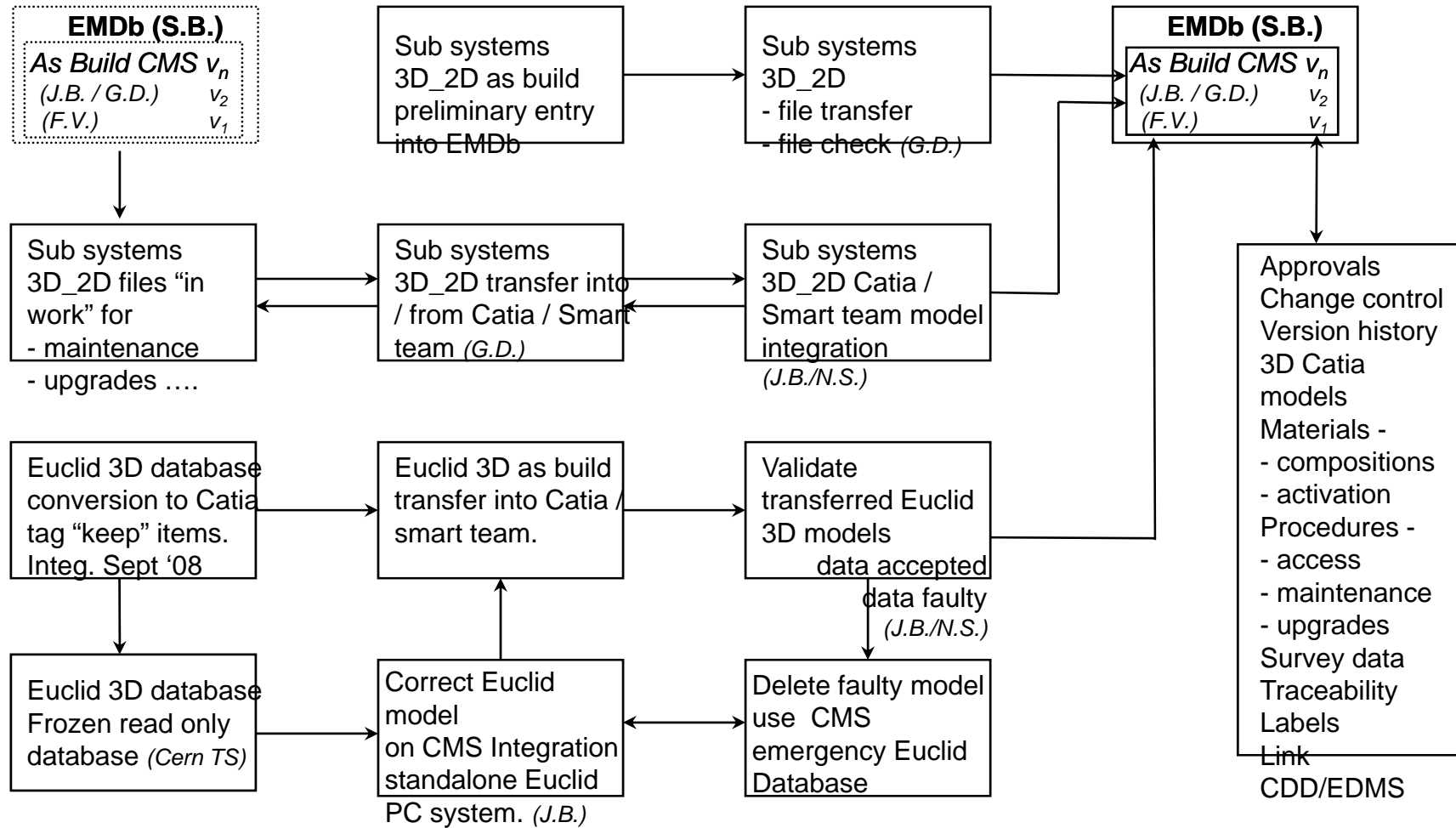


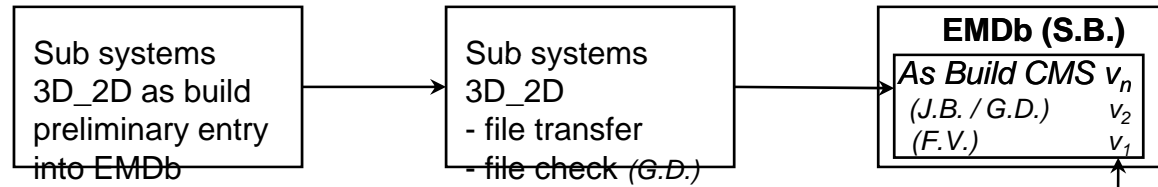


# EMDb and “As Build” data Integration





# EMDb and “As Build” data Integration



## **General detector construction and design information flow into the EMDb**

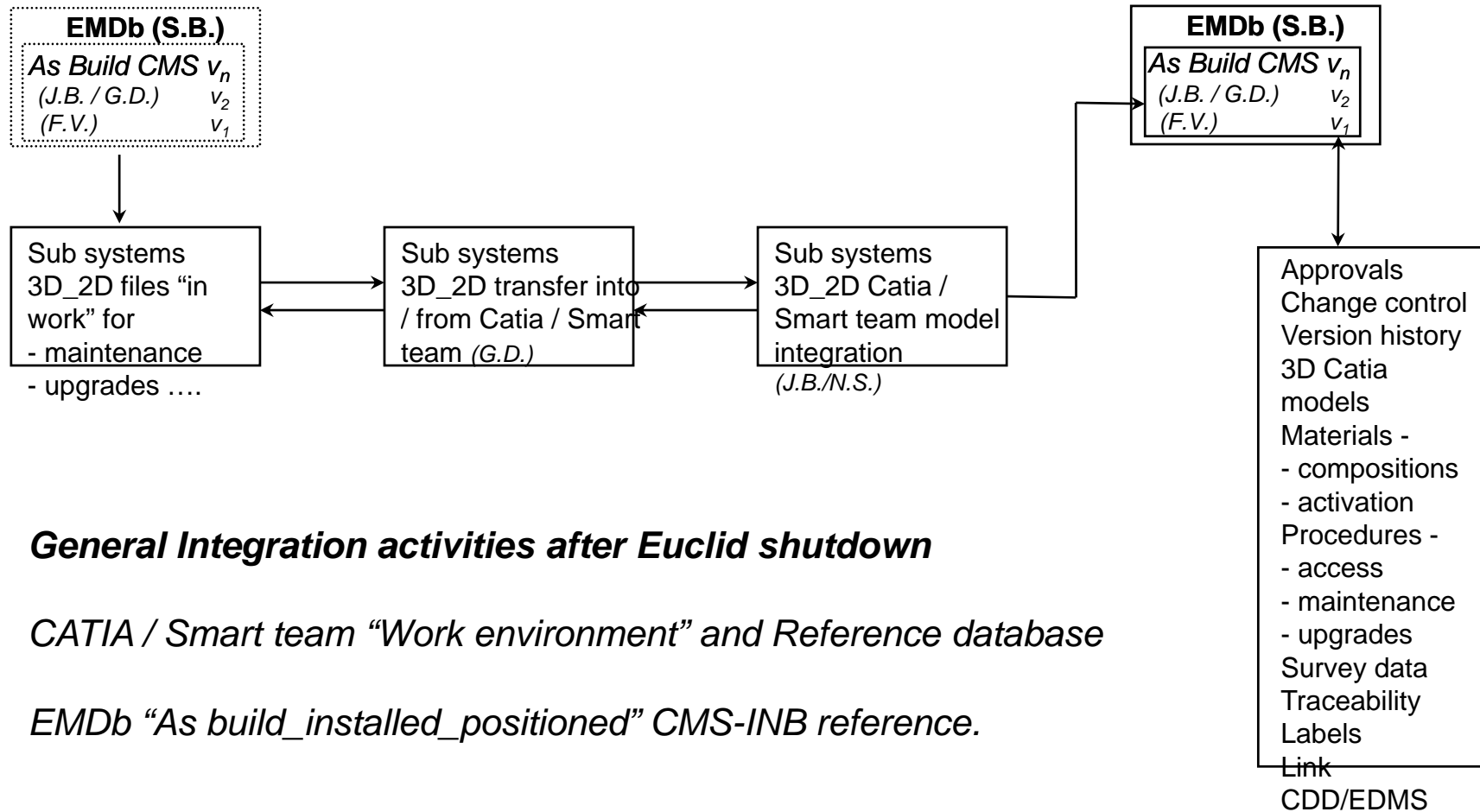
*Temporary storage of 3D\_2D information inside the EMDb, to be replaced with the final “As build\_installed\_positioned” CMS-INB reference data in*

*Collaboration with the Detector link persons and Institute design offices.*

- Approvals
- Change control
- Version history
- 3D Catia models
- Materials -
  - compositions
  - activation
- Procedures -
  - access
  - maintenance
  - upgrades
- Survey data
- Traceability
- Labels
- Link
- CDD/EDMS



# EMDb link to the CMS Integration work



## General Integration activities after Euclid shutdown

CATIA / Smart team "Work environment" and Reference database

EMDb "As build\_installed\_positioned" CMS-INB reference.

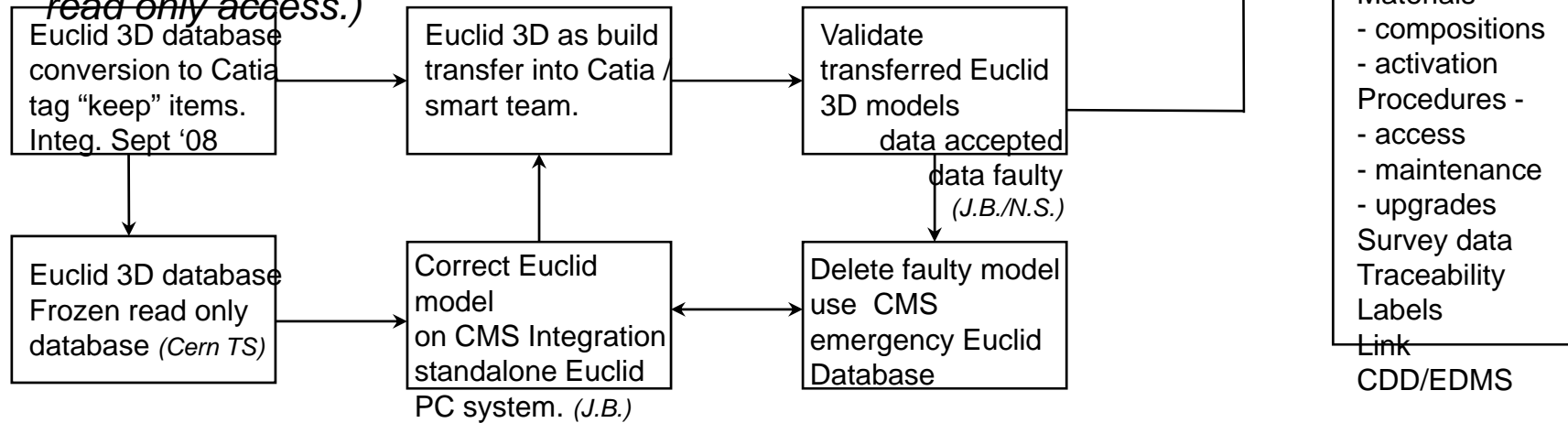


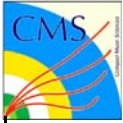
# EMDb and “As Build” data Integration

## **CMS / Integration data transfer after September Euclid shutdown**

Tag all CMS detector, services, infrastructure and integration data before September. (Special attention to outside Cern Euclid Magnet and Muon systems database transfers.)

Keep CMS Euclid stand alone PCs running and allow write access to an Euclid “emergency database” to correct models with transfer errors at later date. (Frozen databases allow for read only access.)





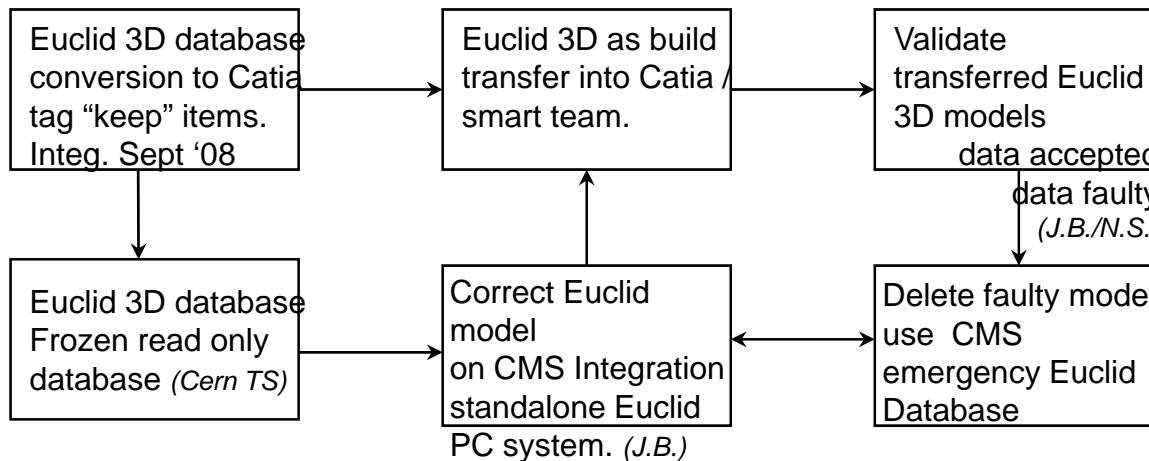
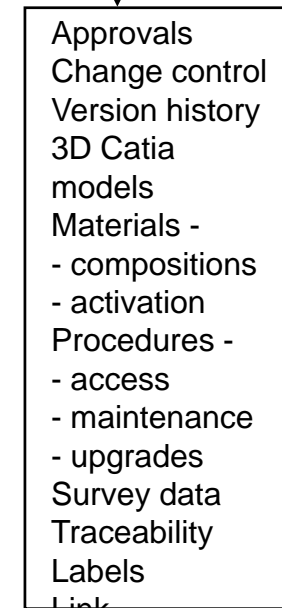
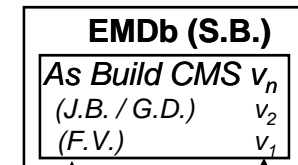
# EMDb and CMS Euclid/CATIA data transfer

ACTIVITY	Sum of tot	Sum of Plans	Sum of PlansU	Sum of Unknov	Sum of Keep	Sum of Delete	Sum of Critical	Sum of Frozen
CMS_DILR	353	136	0	3	192	5	17	0
CMS_EA	4521	1467	347	817	722	764	746	1
CMS_VAC	1570	775	232	81	110	193	405	34
CMS_TRACK	2487	759	283	207	1305	192	19	0
CMS_ECB	4656	2158	1871	2054	407	1	32	30
CMS_HCAL	4	0	0	4	0	0	0	0
CMS_MAGNET	284	112	112	153	16	0	2	0
CMS_IRON	1937	201	180	1419	158	0	159	0
CMS_WOGEI	5428	1514	1514	3839	38	0	26	0
<b>TOTAL</b>	<b>21240</b>	<b>7122</b>	<b>4539</b>	<b>8577</b>	<b>2948</b>	<b>1155</b>	<b>1406</b>	<b>65</b>

TS / VAC	
CMS_DILR,ROMAN_POTS,DILR,	
CMS_DILR,ROMAN_POTS_SERV,DISV,	
CMS_EA,CRYOGENICS,QQ17,	
CMS_EA,DIEXC_CABLAGE,CM42,	
CMS_EA,POINTS_GAZ,CM45,	
CMS_EA,SOUT5_EXP_INFRA,CM40,	
CMS_EA,SOUT5_EXP_INFRA2,CM43,	
CMS_EA,SOUT5_EXP_INFRA3,CM44,	
CMS_EA,SOUT5_VENT_AERO,CM65,	
CMS_EA,SOUT6_VENT_TUY,CM26,	
CMS_EA,SURF5_BAT,CM41,	
CMS_EA,SURF5_VENT_AERO,CM66,	
CMS_EA,SURF6_VENT_TUY,CM27,	
CMS_VAC,VACUUM_CHAMBER,CM50,	
CMS_VAC,VACUUM_CHAMBER2,CM52,	
<b>TOTAL</b>	<b>6445</b>

CMS DET	
CMS_TRACK,OUTER_BARREL,TOBM,	
CMS_TRACK,OUTER_BARREL_TT,TOBT,	
CMS_TRACK,TAXXX_ALIGNMENT,TA01,	
CMS_TRACK,TLXXX_MSG_BARRL,TL01,	
CMS_ECB,ASSEMBLY,CM74,	
CMS_ECB,EBAHM_HANDLIN000,CM70,	
CMS_ECB,EBAHM_HANDLIN023,5501,	
CMS_ECB,GENERAL,CM71,	
CMS_ECB,GENERAL2,CM72,	
CMS_ECB,GENERAL3,CM75,	
CMS_ECB,GENERAL4,CM77,	
CMS_ECB,GENERAL5,CM79,	
CMS_ECB,GENERAL6,CM80,	
CMS_ECB,GENERAL7,CM81,	
CMS_ECB,REG_CENTER_TOOL,CM73,	
CMS_ECB,REG_CENTER_TOOL2,CM76,	
CMS_ECB,REG_CENTER_TOOL3,CM78,	
CMS_ECB,REG_CENTER_TOOL4,CM82,	
CMS_WOGEI,MUONB,DIMB,	
CMS_WOGEI,STRUCTURE,DI_P,	
CMS_WOGEI,INSTALLATION,DI_Q,	
CMS_WOGEI,STRUCTURE2,DI_V,	
<b>TOTAL</b>	<b>8160</b>

INTEG	
CMS_WOGEI,AMENAGEMENT,DI_C,	
CMS_WOGEI,AMENAGEMENT2,DI_B,	
CMS_WOGEI,AMENAGEMENT3,DI_I,	
CMS_WOGEI,AMENAGEMENT4,DI_J,	
CMS_WOGEI,AMENAGEMENT5,DI_X,	
CMS_WOGEI,AMENAGEMENT6,DI_S,	
CMS_WOGEI,AMENAGEMENT7,DI_Y,	
CMS_WOGEI,AMENAGEMENT8,DI_F,	
CMS_WOGEI,AMENAGEMENT9,DI_L,	
CMS_WOGEI,ECAL,DI_E,	
CMS_IRON,BAR,CM51,	
<b>TOTAL</b>	<b>6635</b>





# EMDb and CMS Euclid/AutoCad data linking

