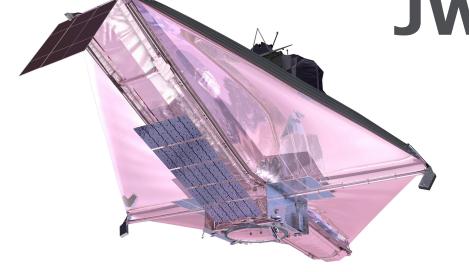
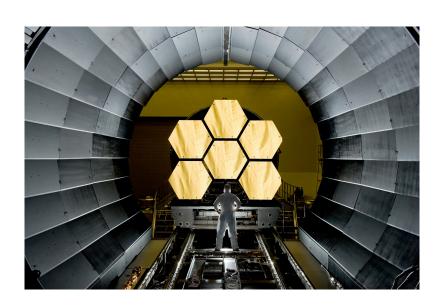
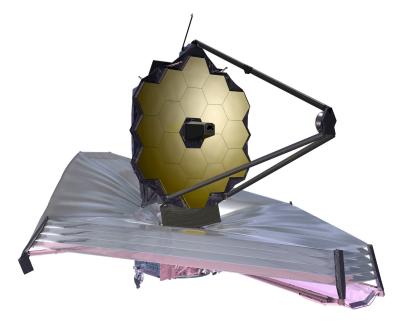
JWST status













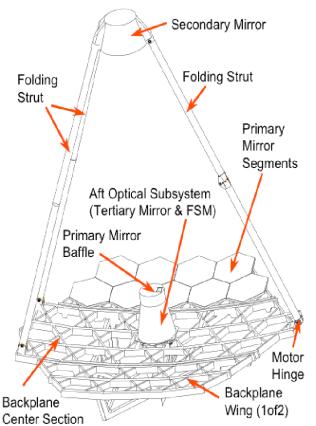


Overall situation



- 2012 has seen some major achievements for the JWST mission.
 - All the mirrors are ready!
 - Delivery of two of the 4 JWST instruments: MIRI and FGS/NIRISS.
 - Plenty of progress in all areas.
- Since the "replan" in 2011, the JWST project is back on track.
 - Major consolidation work.
 - These efforts are now bearing fruits as project is heading steadily toward a 2018 launch!

 All JWST mirrors have been completed and they meet their optical performance requirements.



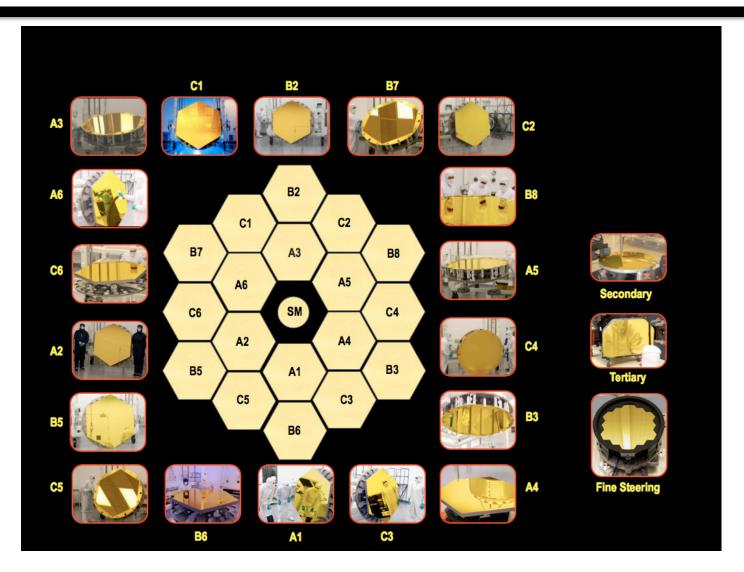
6 of the flight mirrors before cryogenic testing



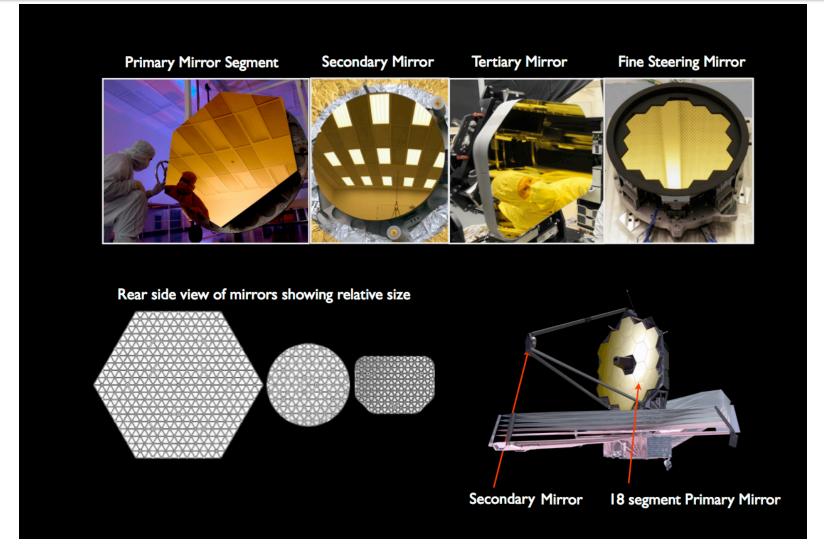
Credit: NASA/MSFC/David Higginbotham

FSM = fine steering mirror

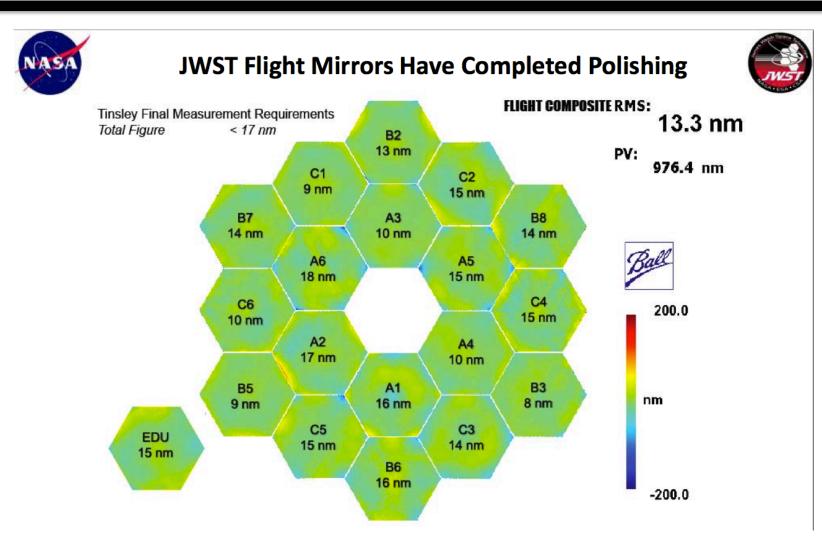






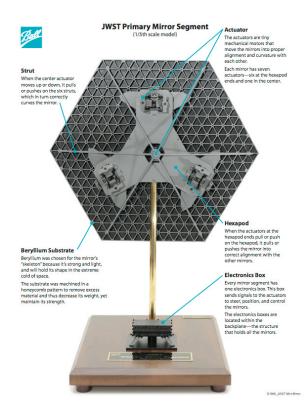








 Next steps: during the next 2 years, finalize the work on the actuators and progressively deliver the mirrors with their actuators to GSFC.





Mirrors have already started to arrive at GSFC.



The delivery of the MIRI optical assembly



 After a very long (and successful) cryogenic campaign at the end of 2010, the MIRI optical assembly went through "acceptance" and was delivered to NASA in May 2012!

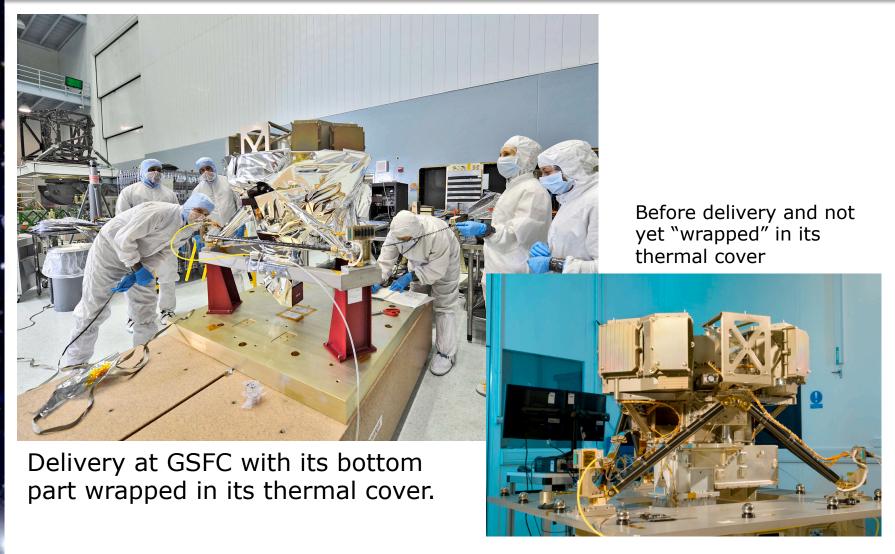






The delivery of the MIRI optical assembly



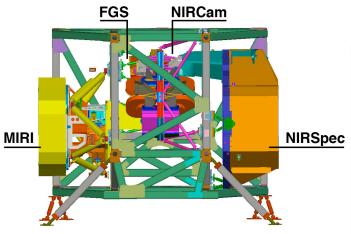




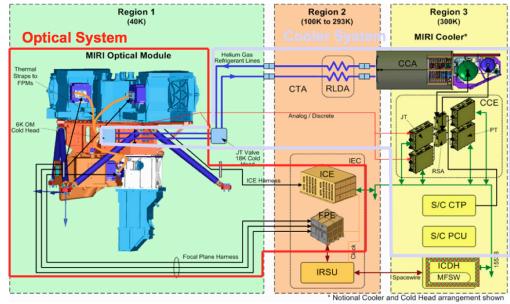
The delivery of the MIRI optical assembly



 Next steps: integrate MIRI into the ISIM structure that supports all the instruments and couple it with the MIRI cryo-cooler.







MIRI European Consortium

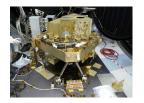








The delivery of the FGS/NIRISS instrument



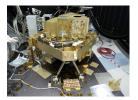
• The second JWST instrument FGS/NIRISS was delivered to GSFC in July 2012!





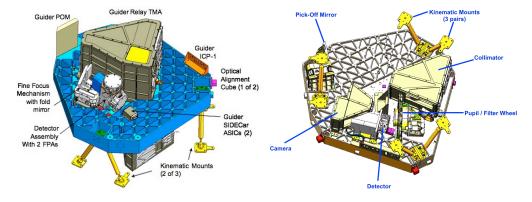


The delivery of the FGS/NIRISS instrument



The second JWST instrument FGS/NIRISS was delivered to

GSFC in July 2012!

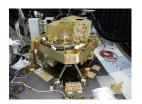




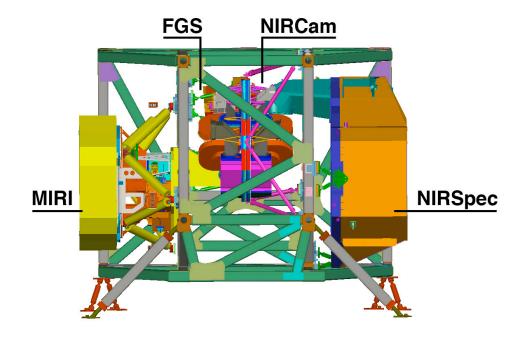




The delivery of the FGS/NIRISS instrument



 Next steps: integrate FGS/NIRISS into the ISIM structure that supports all the instruments.



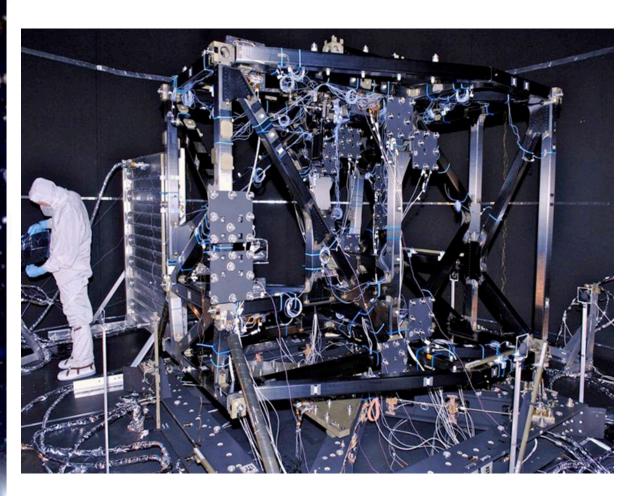


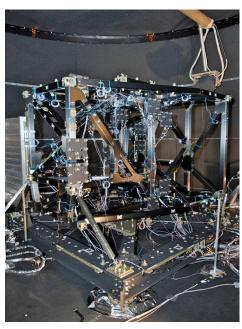
The ISIM structure (flight model)



NIRSpec

NIRCam



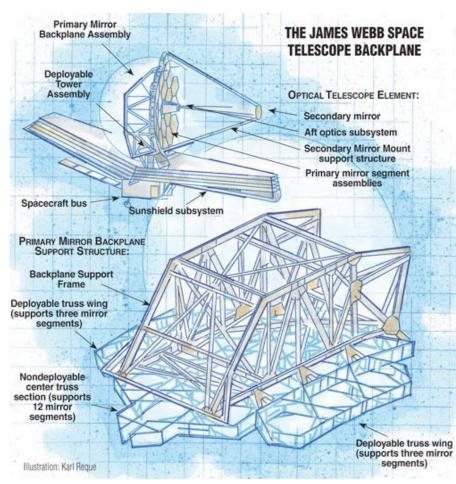


The ISIM structure getting ready for cryogenic testing

The JWST mirror backplane (flight model).

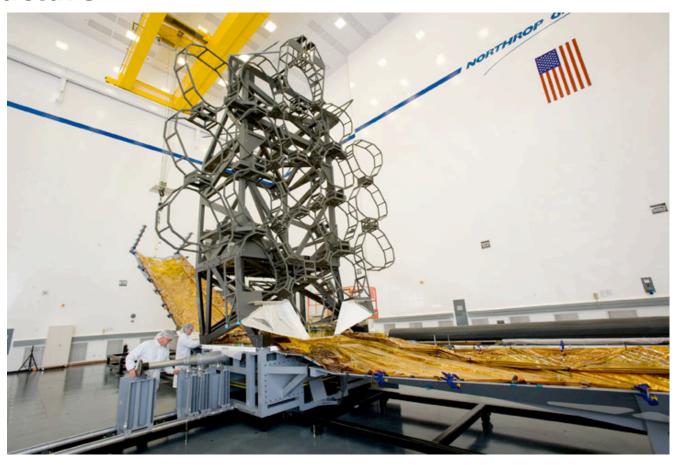


Central part (without the "wings")





Full-scale "mock-up" of the mirror backplane structure.





The JWST sunshield (full-scale test membrane).





The JWST sunshield (full-scale test membrane).







The JWST sunshield, checking the shape of each

membrane.

Checking that the shape under 1G conditions is the one we expect.

This confirms that the models are correct and that we can use them to predict the "in-orbit" shape.



