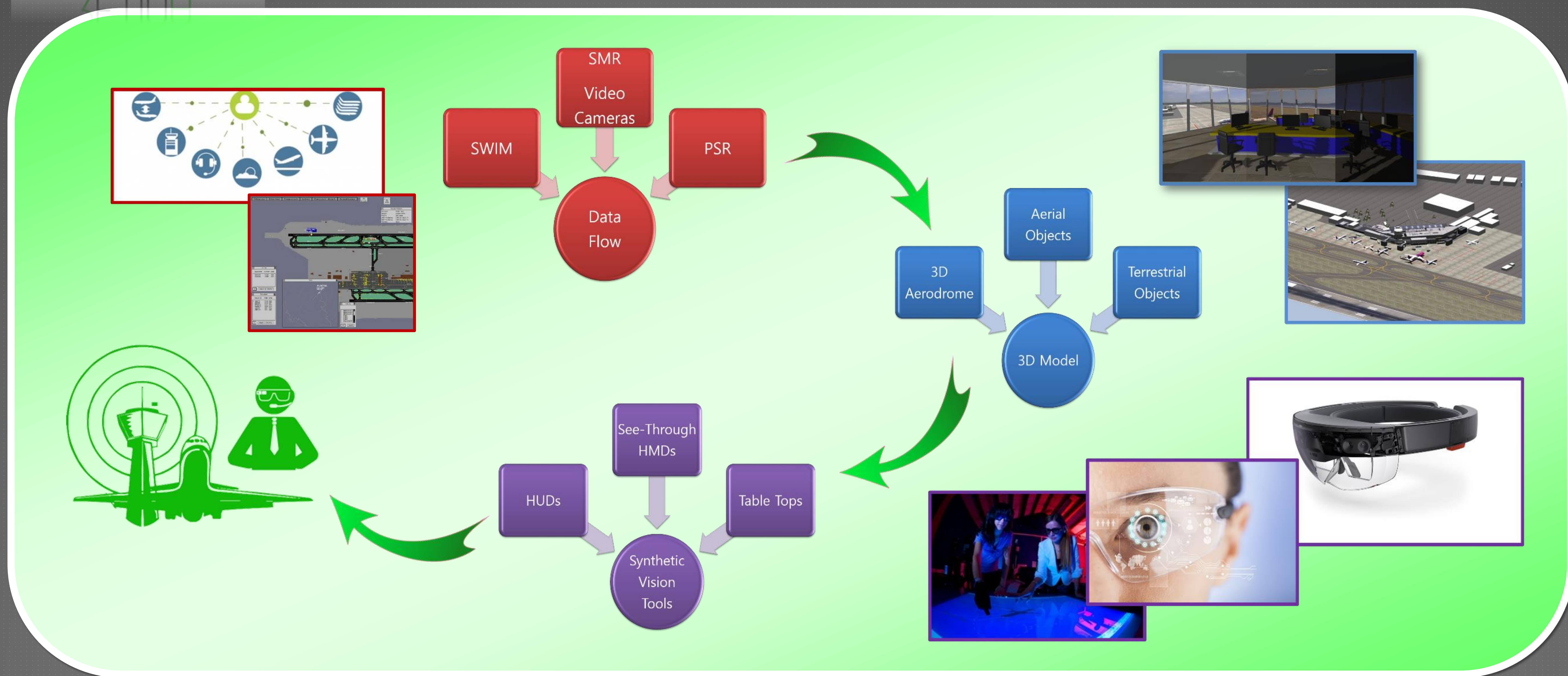


AUGMENTED AND VIRTUAL REALITY IN THE AIRPORT CONTROL TOWER: THE RETINA CONCEPT



RETINA (Resilient Synthetic Vision for Advanced Control Tower Air Navigation Service Provision) is the concept of enhancing human sight capabilities and situation awareness in the control tower by means of synthetic vision.



CONCEPT

In the RETINA concept, controllers will be no longer limited by what the human eye can physically see out of the tower windows.

As trust in digital data will continue to grow, RETINA's concept will allow the controller to have a head-up view of the airport traffic even in low visibility conditions similar to the synthetic vision currently used in the cockpit.

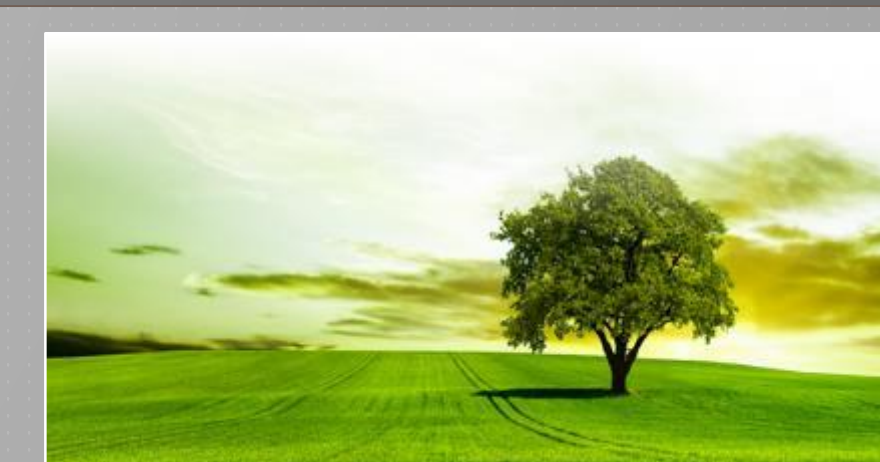
RETINA will build upon the technologies developed in SESAR, such as remote tower, safety nets, SWIM, to provide augmented reality tools for the tower controller.



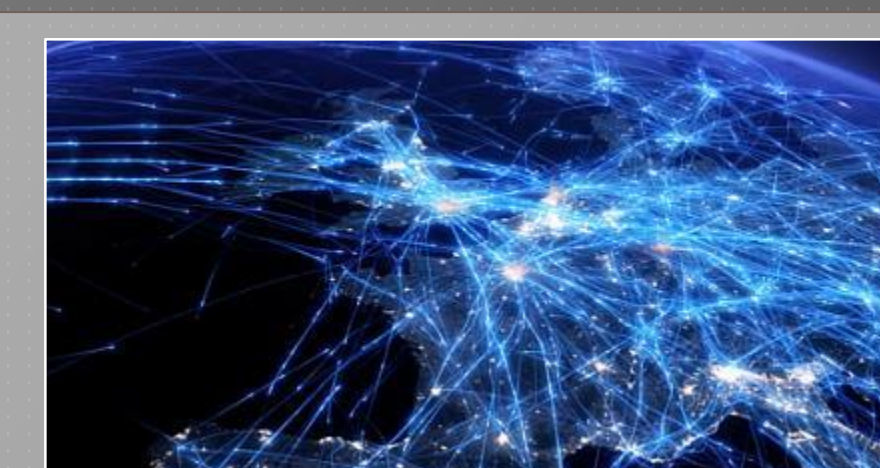
CONSORTIUM



SAFETY



ENVIRONMENT



EFFICIENCY



COSTS

EXPECTED IMPACTS



RETINA PROJECT

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