

Our European Launch base in French Guiana, a new era is born

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ABSTRACT

1968, 1975, 1979, 2000, 2019.

How far is the time where Europe was the leader in commercial launches. This position was due to a political commitment with several key points identified by the indicated years. Due to the worldwide numerous obvious competitors it was mandatory to target a new face for our European Launch base located in French Guiana.

Fortunately, the world is moving fast with a huge place for innovation. Unfortunately, money is still a concern, and you can't attract customer just with words. In the frame of this world undefined evolution, the European council has decided to validate a new era set up for our European Launch Base: Propose new and flexible services, which will be used by our European launchers Ariane 6 and VEGA C, and for micro and mini launchers, this set-up with a green and reliable costless launch base.

What is the challenge then? To work on six different and nevertheless linked components, at the same time to renew our launch base within 5 years, for a defined budget envelope. The main tryptich is water, air cooling and Energy. The first layer is to renew or build equipment with lower consumption, in parallel, to ensure a green and controlled power production and to manage the need for power. The second step is to continue the actions to avoid as much as possible the loss of water with an increase of useful and wireless data. The third step, more over in French Guiana with temperatures around 30 and hygrometry over the 90%, is to target as much as possible with the needs, when necessary.

After the presentation of the basement, let's focus on the tree over operations and services components. A radar for the flexibility and the new services, a component on digitalization to deploy the first steps of digitalization, a last component named *Centre des Opérations* (CDO), for the flexibility, the cost and the efficiency of the launch base. The CDO is part of the presented abstracts.

How to manage the activities to be able to reach the calendar and cost targets? How is the link between the six components? And more over how to deploy these systems in an operational launch base, the famous *Centre Spatial Guyanais*, our European launch base, being instilled by new space organisations and requests?

These major questions can stay as is, days progress and our target validated by the European council is vital for European Space Awareness and improvement: A new era is born for our European Launch base.