

Curaçao Airport Holding

Operations
Supervision

Air Service
Development

Airport City
Development



Excellence

Simon Kloppenburg
Commercial Developer
Airport Development



Simon Kloppenburg
Commercial Developer
Airport Development

—
“PEOPLE WHO SAY
‘IT CANNOT BE DONE’
SHOULD NOT INTERRUPT
THOSE WHO ARE DOING IT.”
—

GEORGE BERNARD SHAW



March 2016

XCOR

SPACE EXPEDITIONS

XCOR SE Commercial Spaceflight Operations Curaçao



XCOR

XCOR recognizes increasing importance of Space

- Internet, mobile communications, navigational applications etc.
- Environment, Sustainability

XCOR provides access to space for:

- Tourists
- Science
- Micro- & Nano satellites

**XCOR provides Space Entertainment & Education
“Edutainment”**



A LIFE-CHANGING EXPERIENCE



SXC –XCOR SE

- Space Experience Curacao as of 2008. Netherlands based entity
- Commercial Space and Regulation Challenge as of 2009 directed at Curacao as first non US Spaceport
- MoU for XCOR Lynx wet lease in 2010
- Wetlease contract signed in 2011
- Space Experience Corporation as of 2012
- XCOR Space Expeditions as of 2014
- XCOR SE incorporated in XCOR in 2014



2008



2011



2014





XCOR Space Expedition announced
Curacao to be its preferred Launchpad

When Dreams Become Reality

When technological developments make dreams close to reality.....

...When mankind is about to take the next step.....

When the private sector is to make Commercial Spaceflight accessible to people.....

**The industry is going to need
SPACE PORTS!!**



The industry is going to need SPACE PORTS!!

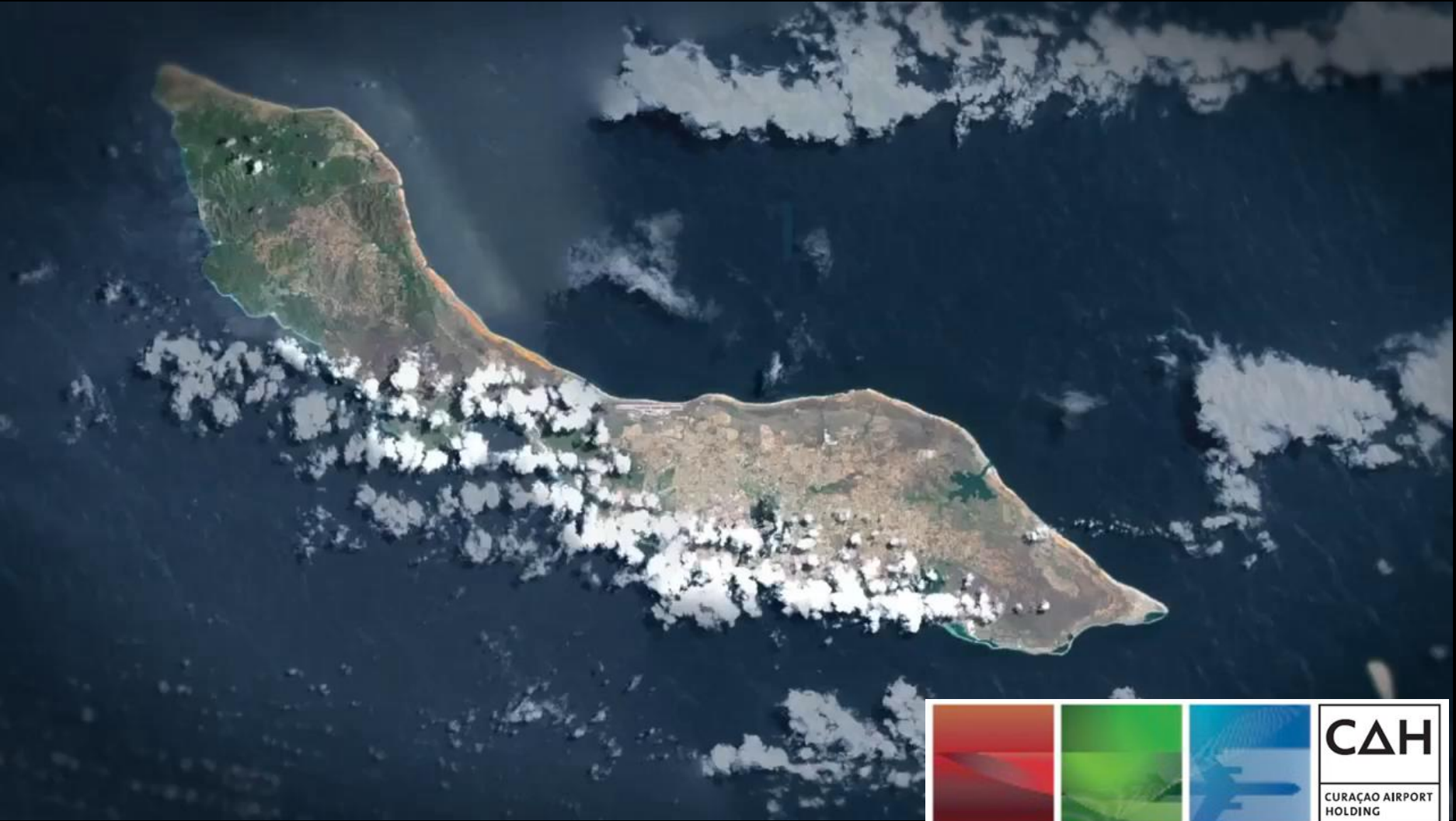
...Spaceports are take-off and landing spots where the spacecraft can safely operate from.....

...What Infrastructure is required for Lynx operations?

- Lynx spacecraft operate somewhat like commercial aircraft during liftoff.
- An airport with a runway, radio communication and appropriate operations licensing is required.
- A custom-built spaceport is not necessary.



Where is Curaçao?



Why Curaçao?



CAH
CURAÇAO AIRPORT
HOLDING

Why Curaçao?

1. Suits current developmental concepts

(SpaceShip 2, Lynx operations, other 'new' spacecraft operators ??)

- Safety, Air Space & VG 2hr RWY Requirement
- Controlled airspace (radar & communication)
- Clean and empty airspace (vertical path and limited movements)
- Nice Weather (view)
- Below Hurricane belt (safety)

2. Well equipped infrastructure

- Mature Tourist Industry
- Perfectly suited and equipped Airport

3. Growth Potential

- Vicinity of Equator (2nd launch)



Why Curaçao?

4. Ideal Strategic Location

- North & South America
- Connections to Europe

5. Healthy Political & Investment Climate

- Part of the Dutch Kingdom
- Logical hub function for centuries
- ITAR issues (relationship US and Netherlands)

6. Home Base, securing safe operation from a facilitating spaceport location

- Space law
- VIP terminal



Why Curaçao?

...Spaceport are take-off and landing spots where the spacecraft can safely operate from.....

...What Infrastructure is required for (horizontal) commercial space operations?

- Basically a space operator needs a professional and friendly aerospace environment where they are allowed and facilitated to operate from.....
- An environment that facilitate their customers to experience their expectations to the fullest
- Where future developments can be facilitated
 - 2nd launch
 - Research
 - Point to point
 - ???



Our Vision

Curacao
The High-tech, Green and Innovative
Center Of excellence
in de region



Where do we stand

While XCOR SE is working on the spacecraft;

- Since 2012 specific legislation is created in Curaçao for spacecraft operations in both an air- and space environment
- In 2013 a draft “Space Act Curaçao” emerged; the basic law;
 - This draft Act was further processed by several Curacao Ministries
 - The “Advisory Board” provided detailed comments on the draft Act
- Draft Act expected soon to be presented to Parliament
- Besides “Space Act Curaçao”, Decrees have been developed
- These Decrees contain mainly technical / specific issues
- Decrees ready in the course of 2016

(Jan-Willem Storm van Gravesande, day 2, theme 2, panel 4)

All to ensure Curacao Space port to be able to allow future space operators to require license and operate from Curacao.



Where do we stand

While XCOR SE is working on the spacecraft;

- Operational Spaceport Taskforce with CAH, CAP, ATC, DVL, FOL & XCOR SE;
- Preparation of reservation of an air and space sector; Dimensions, radius, speeds and altitudes, times etc.
- Hato Airport opened VIP / Jet Center
- Reservation of terrain for building the hangar and personal facilities.
- A limited demonstration campaign with the XCOR Lynx from Hato possible end 2016 / beginning 2017.

Since XCOR will only use these facilities in the first years for a limited time (about three months per year) these facilities will also be open for use by all other interested Spacecraft operators and users.



Conclusion

XCOR Space Expeditions has a complete & advanced business plan on the development for commercial spaceflight operations from Curacao

XCOR Space Expeditions considers Curaçao as its first Spaceport outside to US and also as an example for other countries/locations.

Curacao is one of the pioneers in Space Law.



Conclusion

Curacao International Airport prepares to facilitate commercial spaceflight operations;

- Space Law
- Operational Spaceport Taskforce
- VIP / Jet Center
- Airport City Masterplan

Curacao preparing to become one of the Spaceports to facilitate Commercial Space launches and deliver the first Space Operator License (outside the US?)





5S

Sun

Sea

Sand

Space

Science



SPACEPORT
CURAÇAO

