Sentinel Vision
SED-1286
17 May 2023

2D Layerstack

Carbon sequestration and food farming at Ibi village agroforestry project, DRC

Landsat TM acquired on **25 May 1998** at 08:41:41 UTC
Sentinel-1 CSAR IW acquired on **09 August 2015** at 04:34:59 UTC
Sentinel-2 MSI acquired on **28 May 2016** at 09:00:22 UTC
Sentinel-2 MSI acquired on **11 June 2022** at 08:55:59 UTC
Sentinel-1 CSAR IW acquired on **08 August 2022** at 04:35:31 UTC

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Fig. 1 - S1 (08.08.2022-09.13.2022) - Ibi village project takes place 150 km east of Kinshasa

2D view

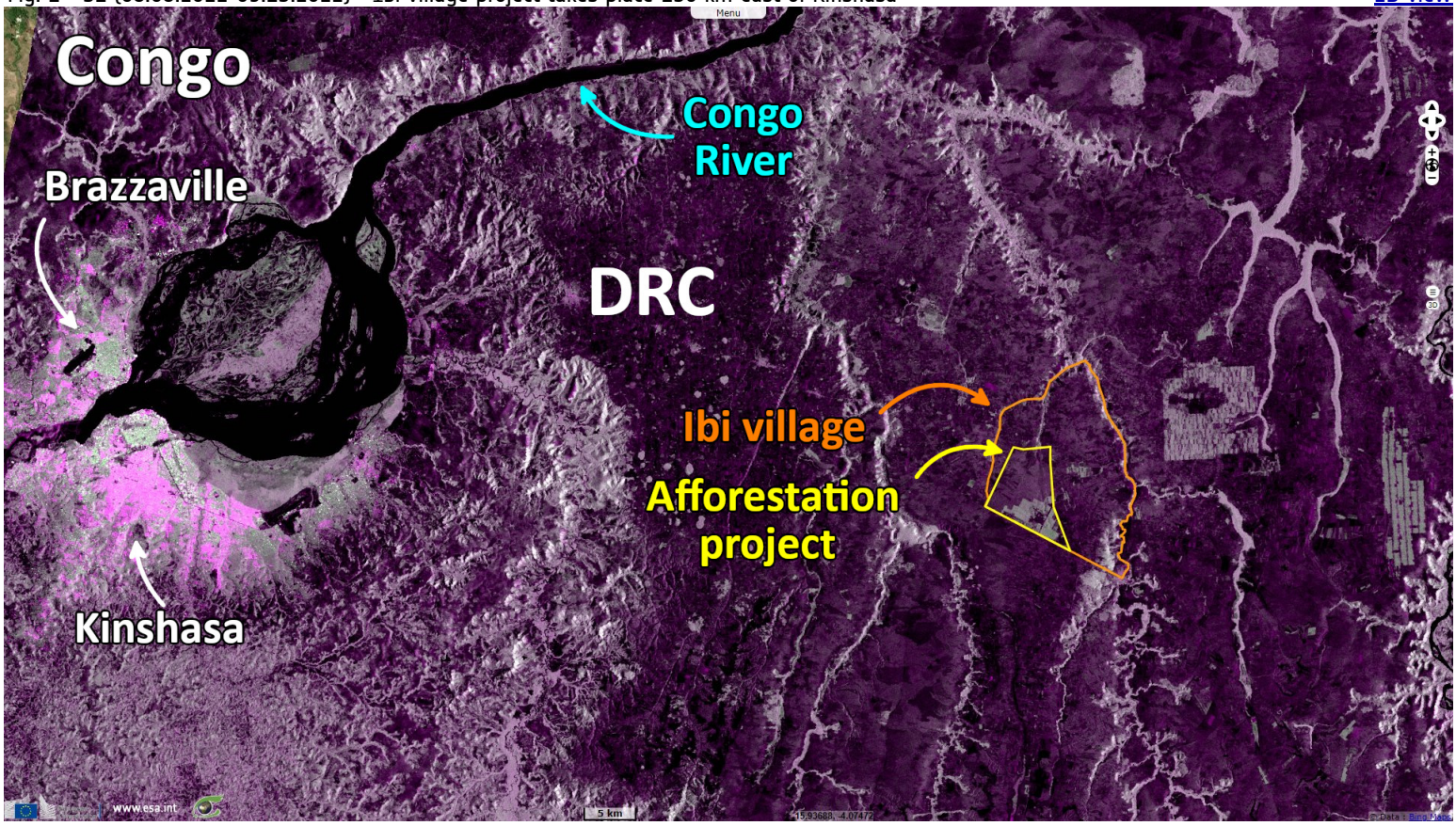
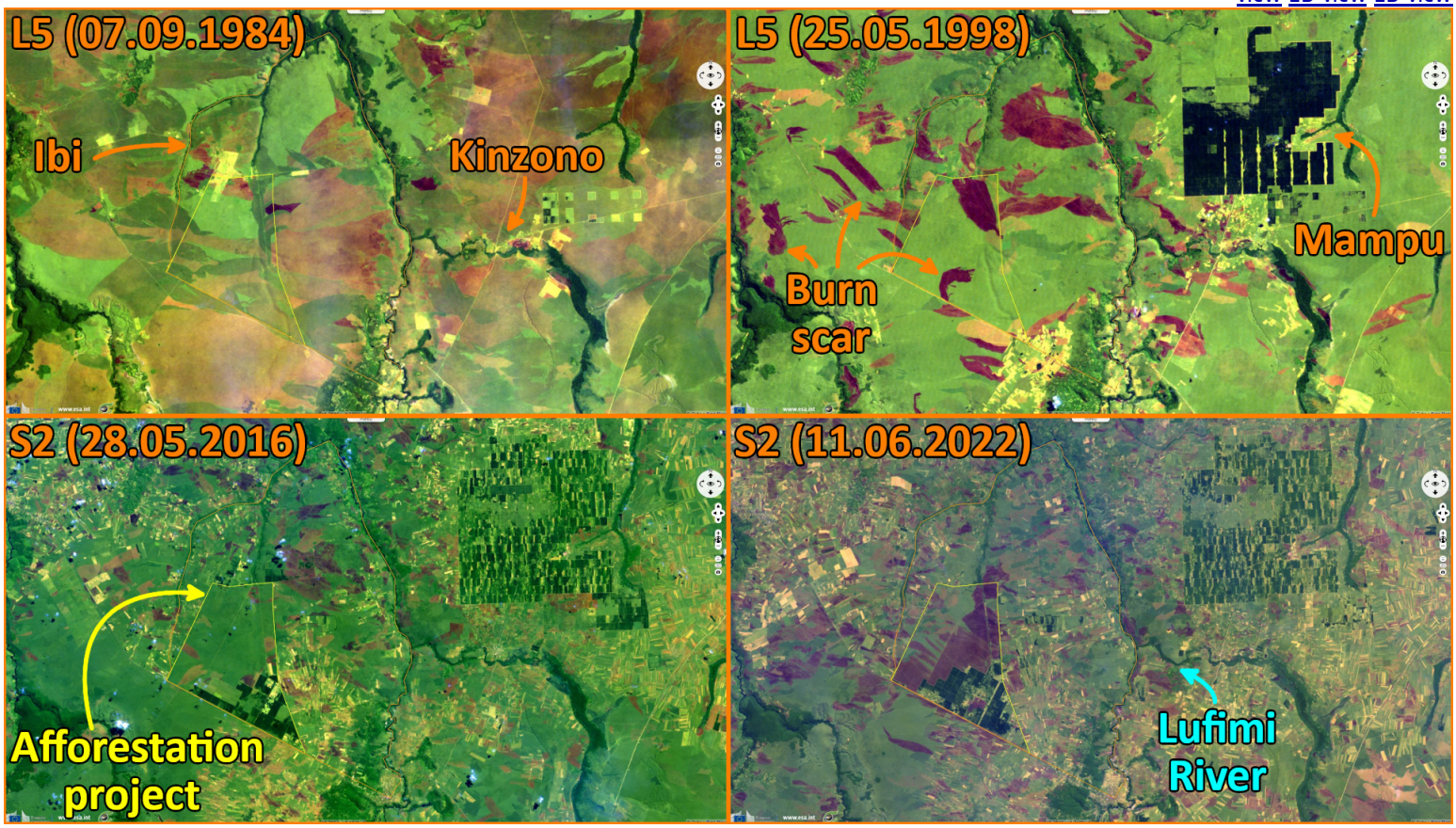
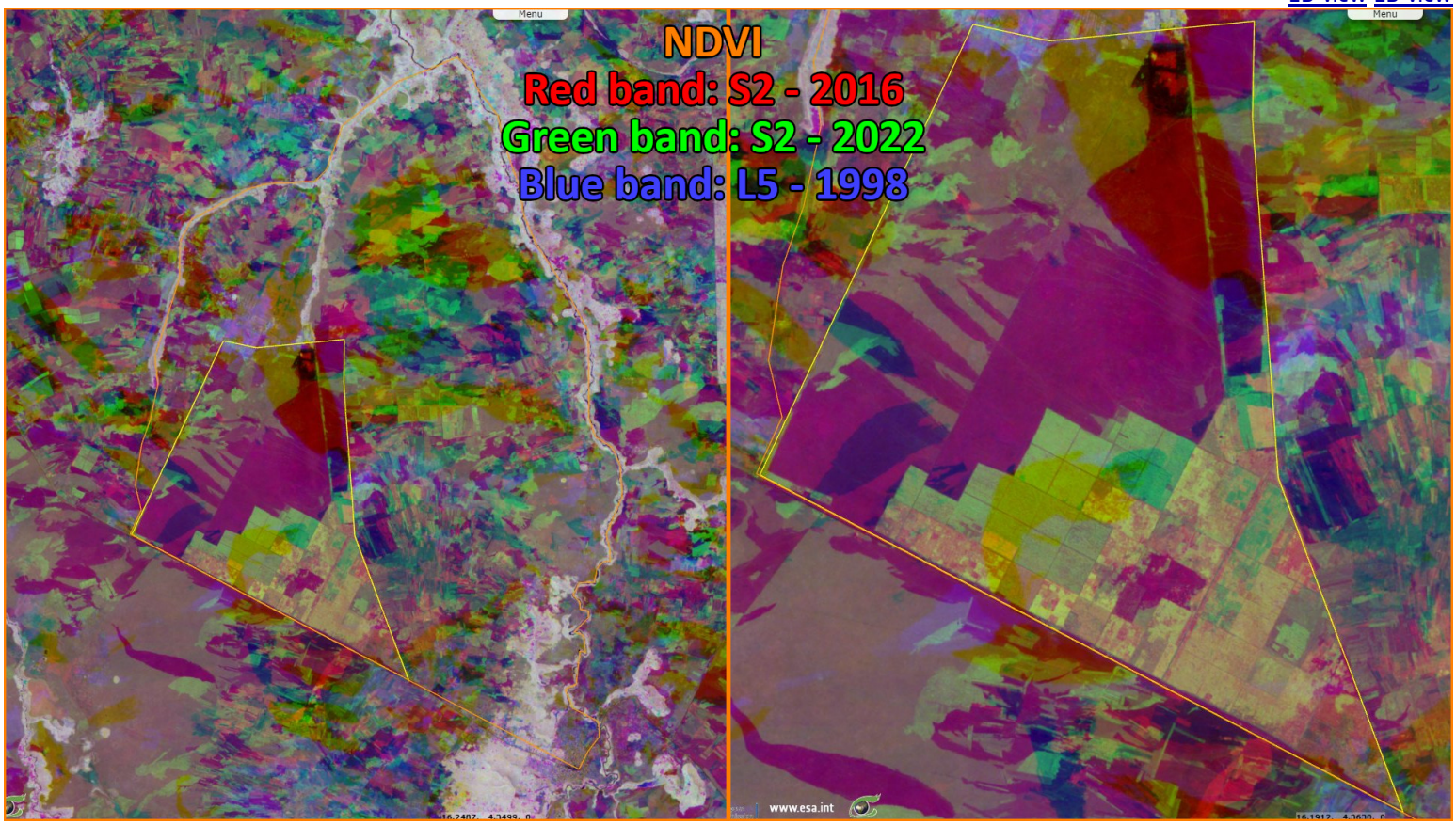


Fig. 2 - L5 (07.09.1984, 25.05.1998), S2 (28.05.2016, 11.06.2022) - They use agroforestry methods to ally food farming & afforestation. 2D view 2D view 2D view 2D view



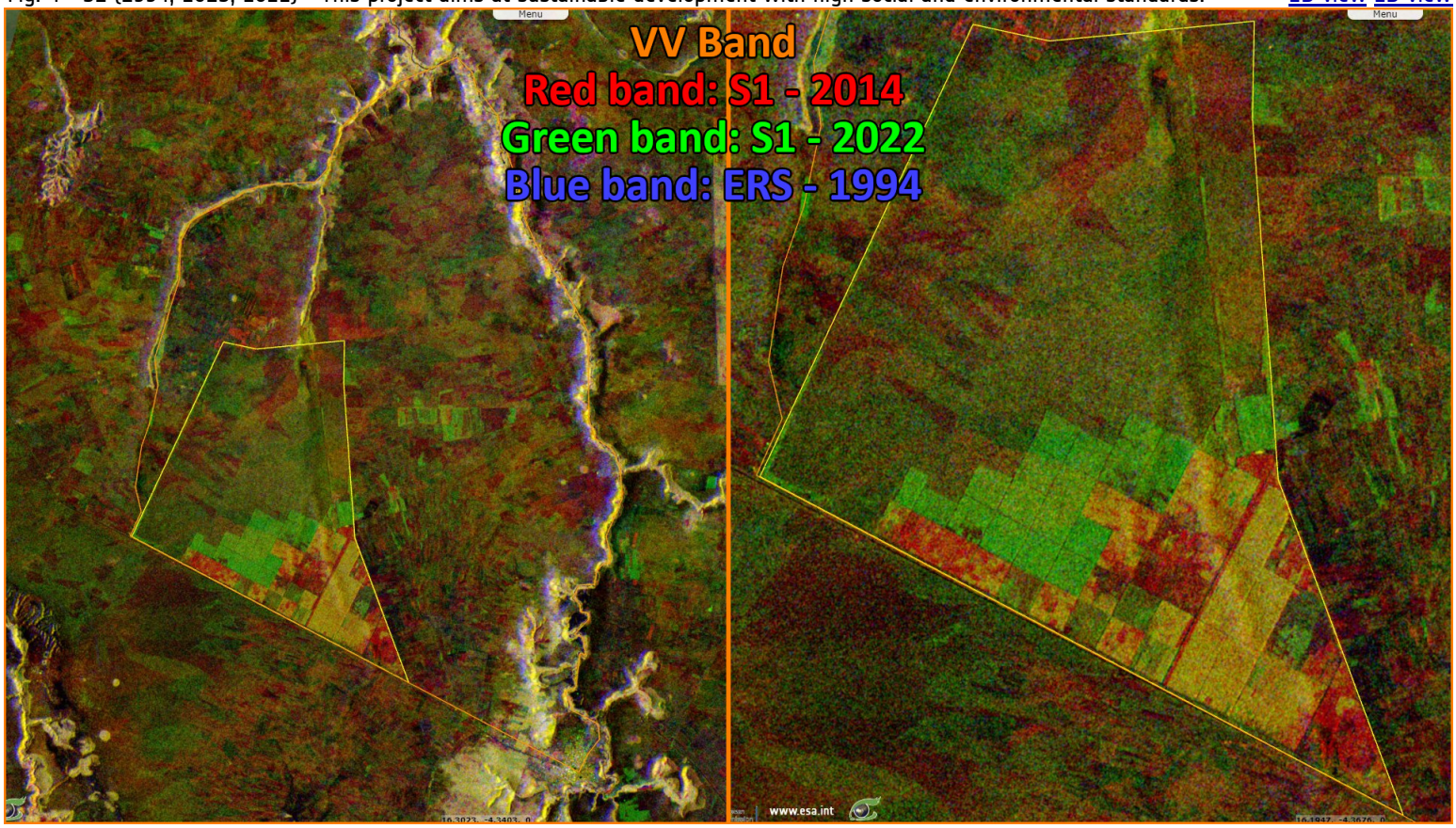
In the 1980s, a project to develop the land of the Batéké Plateau began, giving priority to social and environmental aspects. The Walloon Region finances the infrastructure from 1998 onwards.

Fig. 3 - L5 (25.05.1998), S2 (28.05.2016, 11.06.2022) - This carbon sink allows selling carbon credits, over 1000 hectares of trees have been planted. 2D view 2D view



In February 2011, Ibi Village was the first private project in the DRC to be registered as a Clean Development Mechanism (CDM) with the United Nations Framework Convention on Climate Change, which allowed it to sell carbon credits based on the carbon sequestered in the planted trees.

Fig. 4 - S1 (1994, 2015, 2022) - This project aims at sustainable development with high social and environmental standards. 2D view 2D view



Since 2015, partner farmers have been cultivating a plot of land using the agroforestry method. After one year the cassava crops are harvested while the trees continue to grow. After 7 years, when they have stopped absorbing additional CO2, they are cut down. They are then transformed into charcoal and sold on the market in Kinshasa.

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