Dermatologists currently have multiple electronic equipment dedicated to the study of the skin, among the non-invasive devices that specialize in taking images of the lesion we can find: Dermatoscopes that allow the study of the surface of the skin (Dermoscopy), confocal microscopes that provide a deeper image of the lesion (RCM), or the Smartphones with a camera can capture an overall picture of the lesion (photography). Many of these devices allow the visualization and study of images obtained through specialized softwares, developed by the creators of the equipment or by third parties. Although in some cases these softwares are quite powerful, their main disadvantage is that they specialize in a single type of image, which limits the dermatologist to a single point of view of the wound.

As can be seen in the International Skin Imaging Collaboration (ISIC), the multimodality of images is widely used today in clinical practice, it is based on the study of an affected area with different types of images such as Dermoscopy, RCM, photography, LC-OCT, among others, in order to establish an accurate diagnosis. Thanks to the different characteristics provided by the different image families, the specialist acquires a broader and more accurate view of the study area, butone of the disadvantages found during the use of multimodality lies in the hard work that doctors have to do to have a follow-up of the images. Most of the time, images are saved in different applications or even in different devices and asthe number of patients increases, image maintenance becomes extremely complicated and some images are forgotten.

In addition to multimodality,as technology advances, calls for AI in the dermatological field are becoming more and more popular. One can find companies or organizations that specialize in the development of AI for the study of skin lesions, the iDScore Program is one such example. These AIs help the doctor to give a diagnosis and facilitate the work of analyzing the large amount of information collected froma patient. Some software that manages dermatological imaging includes AI. Thiste IA studies the image obtained by the device and classifies the type of lesion of the patient. There is no doubt that the AI of this software is of great help to the dermatologist, but it is limited to the type of image obtained by the device, leaving aside other families of images and even some are unaware of the physical characteristics of the patient such as age, sex, hair color, among others, which can be useful when it comes to finding a specific result.

After doing a search on the web to find software with all the features mentioned, web applications such as "Anapix" or "Haut.AI", desktop applications such as "Médimust", or mobile applications such as "SkinVision" were found. Despite all the features offered by these apps and their AI, they only work with one or maximum two types of images. And they are not adaptable to other image families.

To solve this ethical problem, the ImVIA laboratory is creating a software dedicated to the study of dermatological lesions capable of exploiting the advantages of the multimodality of images and coupling several AIs that work with one or more image families and with patient data.

This software will be able to :

* Organize the different images of each patient skin lesion .
* Add new image families
* Pair multiple AIs for image study
* Initiates the AI by providing the required information (images of the lesion, characteristics of the lesion, patient information )
* Add new patients with their basic information (surname, first name, age, gender) and medical information created by the dermatologist or required by the AI (E.g. skin color)
* Add new lesions to a patient, with multimodal images and features created by the dermatologist or required by AIs (E.g. diameter of the lesion)
* Filter patients based on their basic and medical information, the characteristics of their lesions or ai results
* View the multimodal image gallery of each patient's lesion as well as the metadata of each image
* Visualization of the evolution of each patient's lesion through a timeline

The software could be of great help to all skin specialists to keep track of their patients' lesions and find an accurate diagnosis of the disease through AI and multimodality. In this way, diseases such as skin cancer could be fought more effectively.