



# How to bring AI medical devices to the market

*Regulatory Insights*

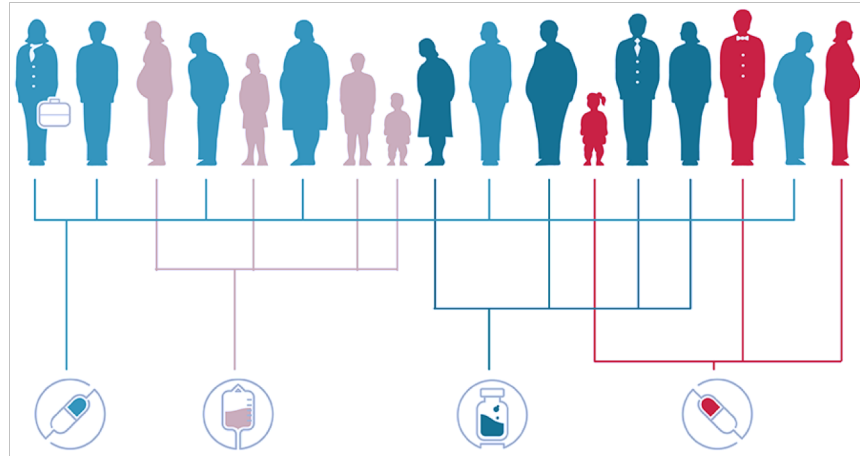
# About me



**Gloria Macia**

**Data Scientist**

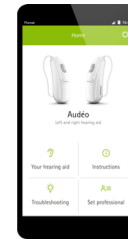
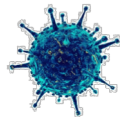
Roche AG



**sonova**  
HEAR THE WORLD

# Medical Device Types

*From an European Regulatory perspective*



Class III

Class IIb

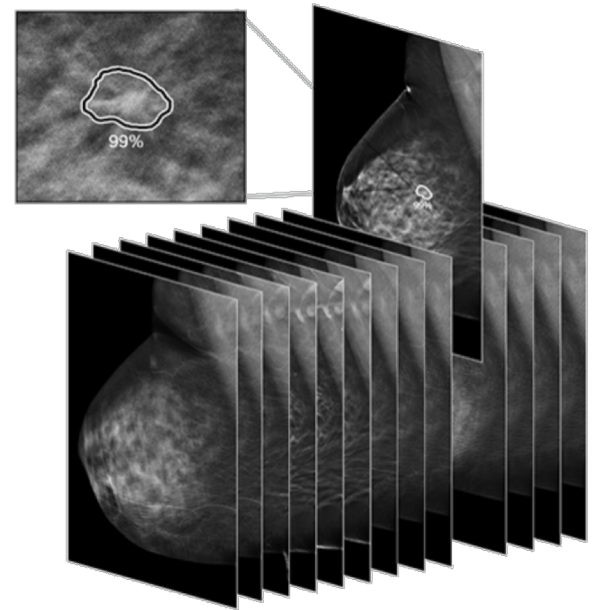
Class IIa

Class I

\* Disclaimer: the European regulatory framework has been recently modified. Strictly speaking, there are still 3 types of medical technologies: in vitro diagnostic medical devices, medical devices and active implantable medical devices. The last 2 types, however, are merged into one single category under the Medical Device Regulation (MDR).

*Breast Cancer Detection Algorithm*

# Deep Learning as a Medical Device

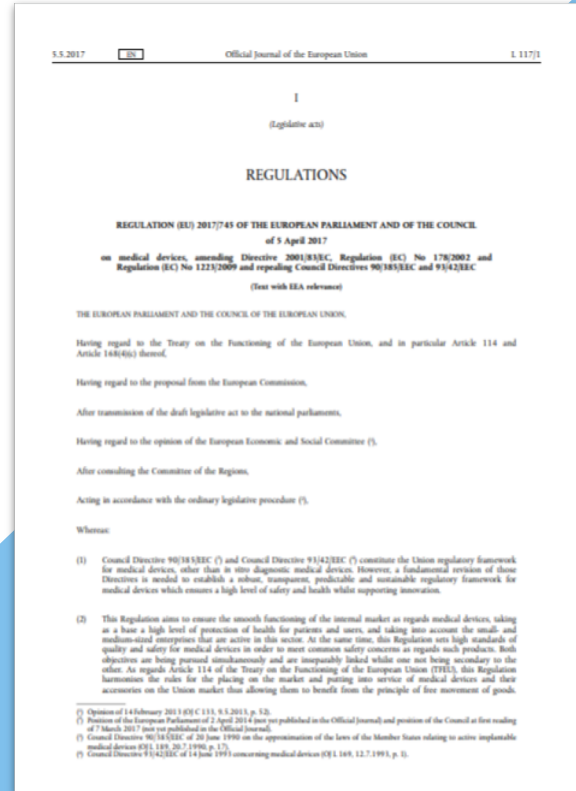


# Regulatory Authorities



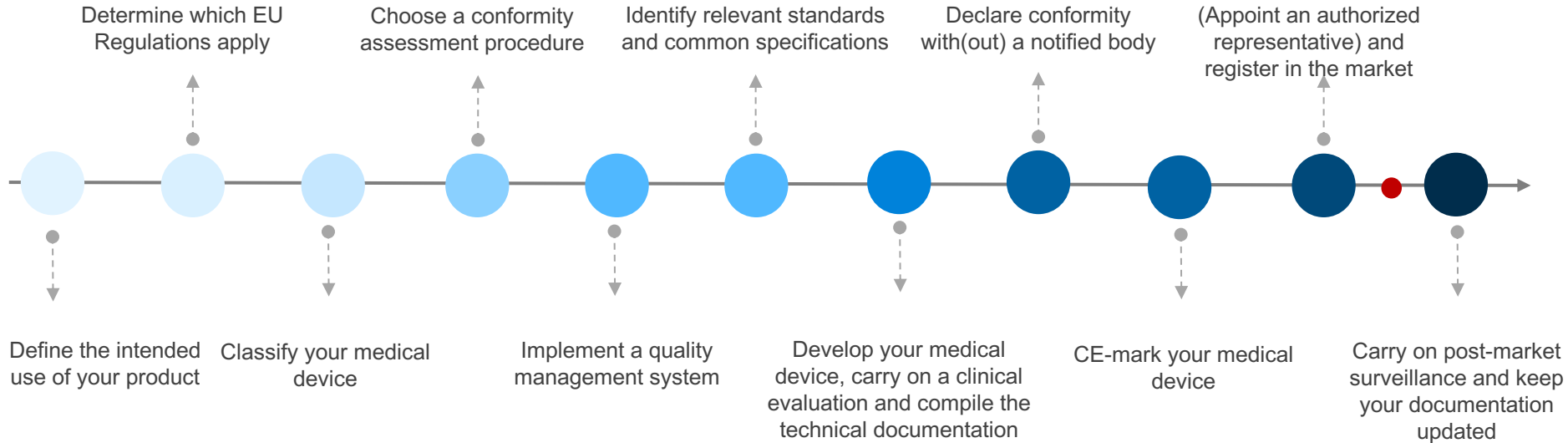
# European Medical Device Market

## Regulations (EU) 2017/745&746



# In a nutshell

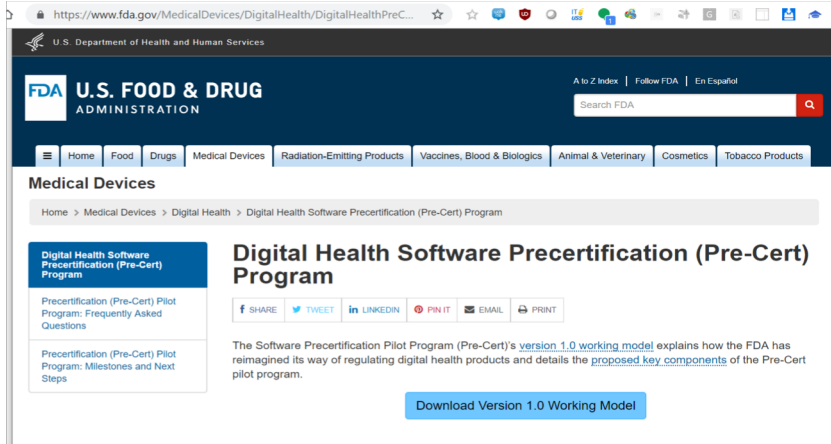
## *Steps to bring a medical device to the market*



# Regulating AI

*“AI holds enormous promise for the future of medicine. We’re actively developing a new regulatory framework to promote innovation in this space and support the use of AI-based technologies”*

FDA Commissioner Scott Gottlieb, MD



U.S. Department of Health and Human Services

**FDA U.S. FOOD & DRUG ADMINISTRATION**

A to Z Index | Follow FDA | En Español

Search FDA

Home | Food | Drugs | Medical Devices | Radiation-Emitting Products | Vaccines, Blood & Biologics | Animal & Veterinary | Cosmetics | Tobacco Products

**Medical Devices**

Home > Medical Devices > Digital Health > Digital Health Software Precertification (Pre-Cert) Program

**Digital Health Software Precertification (Pre-Cert) Program**

Precertification (Pre-Cert) Pilot Program: Frequently Asked Questions

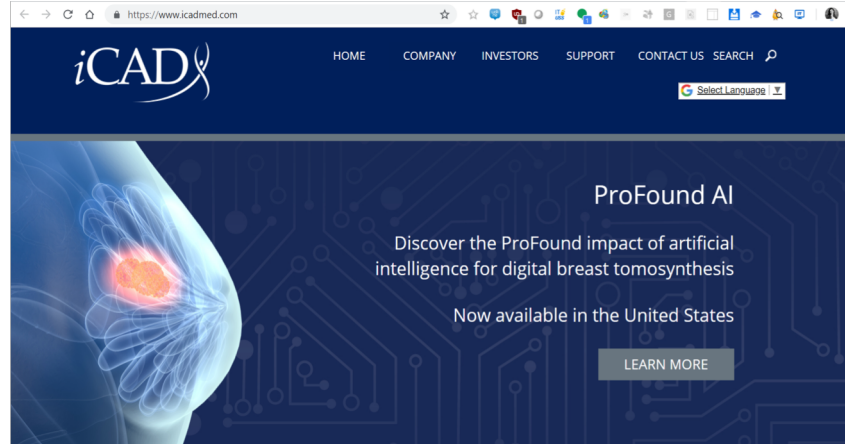
Precertification (Pre-Cert) Pilot Program: Milestones and Next Steps

**Digital Health Software Precertification (Pre-Cert) Program**

SHARE | TWEET | LINKEDIN | PIN IT | EMAIL | PRINT

The Software Precertification Pilot Program (Pre-Cert)'s [version 1.0 working model](#) explains how the FDA has reimaged its way of regulating digital health products and details the [proposed key components](#) of the Pre-Cert pilot program.

[Download Version 1.0 Working Model](#)



iCAD

HOME | COMPANY | INVESTORS | SUPPORT | CONTACT US | SEARCH

Select Language

**ProFound AI**

Discover the ProFound impact of artificial intelligence for digital breast tomosynthesis

Now available in the United States

[LEARN MORE](#)



*Doing now what patients need next*

Gloria Macia  