

# ARNO & ANONYMOUS →

**Non-opposition collection electronic system & Anonymization of patient data for research purpose**

## The need

In the era of big data and advances in data analysis, the collection and storage of this data for exploitation and possible publication seem essential to produce and develop scientific knowledge in research. However, there is always a risk of re-identification. Another problem typically faced to create a health data warehouse is to collect non-objection (paper form) on a massive scale and to ensure that the choice of patients to not be included in the database is respected.

## Impact

- Patient satisfaction thanks to the information given about their data and an easy-to-use option
- 100% of healthcare professionals see Arno saving time on the management of patient oppositions
- Facilitate the exchange of data between healthcare professionals by guaranteeing patient safety

[\*] These results come from regular end-user testing along the project - 12 months

## The solution

ANONYMOUS and ARNO respectively ensure patient's rights to privacy, through anonymization of datasets, and rights to the opposition of data re-use all along with retrospective research protocol, such as clinical studies employing solely data already produced by medical practitioners. These products encompass for GDPR requirements around data processing of medical data in the context of retrospective research and make them user friendly for the various stakeholders, operationally efficient and more respectful of patient's rights. Once plugged to a medical data warehouse, such as Dr Warehouse, the time to conduct GDPR-compliant retrospective research goes down to days instead of months/years.

#MedicalDataPrivacy

#PatientsConsent

#DrWarehouse

## Co-creation and Business Support

Pilot region: Paris (France) | Period: August 2019 – August 2020

 Challenger	 Solver	 Users	 Supporter	 Funder
GHU Paris	Codoc	Several	Medicen	Choose Paris Region
1 Project Director 1 Project Manager 1 Chief information security officer 1 Data Protection Officer	1 R&D leader 1 Medical advisor 1 Back-end developer 1 Project manager	A total of 10 users from: -The department of medical information -Researchers -Doctors -Clinical Research Department	2 business supporters	1 Project manager

## Hear the stories!



***With tools like Arno and Anonymous, it looks like we will finally have the perfect instruments to harness the vast amount of clinical data we have been collecting over the years, whether it's to quickly test new scientific hypotheses or to help us define new ones***

**Fabien Vinckier, Hospital practitioner and university lecturer in psychiatry**



***Thanks to this co-creation, we can propose tech solutions for one of the most challenging entry barriers of retrospective research on medical data: reglementary aspects (GDPR). Dr. Warehouse offers a solution for hospital efficient data exploitation, with Arno and Anonymous we are getting closer to our vision: an end-to-end platform to transform hospital data into medical discoveries and better care for the patients***

**Lucien Roquette, CTO at Codoc**



### About inDemand

**inDemand boosts digital health solutions proposed and co-created with healthcare professionals**

Contact inDemand team:  
[www.indemandhealth.eu](http://www.indemandhealth.eu)  
[hello@indemandhealth.eu](mailto:hello@indemandhealth.eu)

Contact the developers:  
<http://www.drwarehouse.org/>  
[lucien@drwarehouse.org](mailto:lucien@drwarehouse.org)



The inDemand project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under Grant Agreement No763735.