

Covid19 Data Research Hub @ CSO

- broad overview

Overview

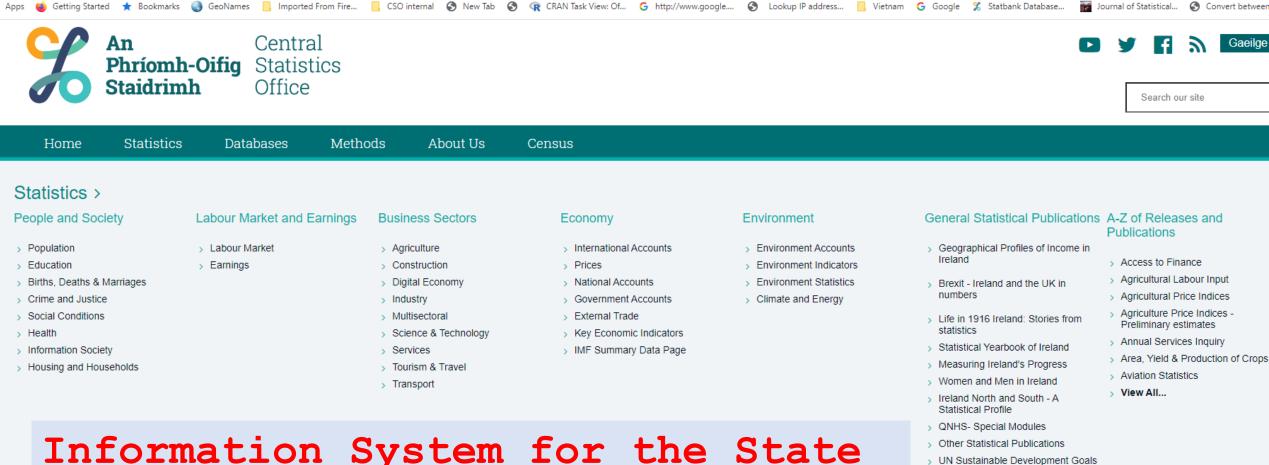
- About CSO
- CSO Infrastructure ADC
- CSO Infrastructure RCU
- C19 data journey
- C19 Data Research Hub

John Dunne SDAP Seminar HRB 21st Sep 2022



С cso.ie/en/index.html

About CSO



Information System for the State

close

> How Dark is your Sky? Estimating Artificial Light in Ireland from Satellite Imagery, 2015-2019

☆



Legislative Context

Data Protection legislation (GDPR) right to privacy

Openness and transparency = Trust Freedom of Information legislation

Statistical legislationEU223/2009IEStatistics Act 1993

right to live
in an informed
society

Selected sections of Statistics Act (1993)

S.10 Functions of office

- S.11 Co-operation and liaison with others
- S.13 Independence on statistical matters
- S.19 Functions of National Statistics Board (strategic/advisory oversight)
- S.20 Officers of Statistics part c covers researchers
- S.30 Access to records of public authorities (2)(b) references medical records
- S.31 Co-operation of public authorities

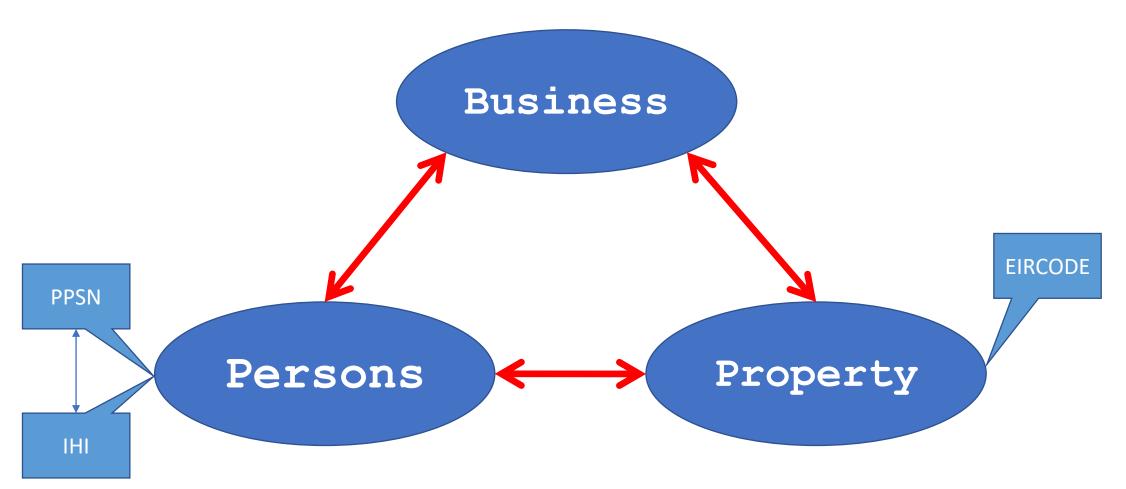
Part V Protection of Information

More info at https://www.nsb.ie/statisticsact/



About CSO

Smarter Data – Better Outcomes

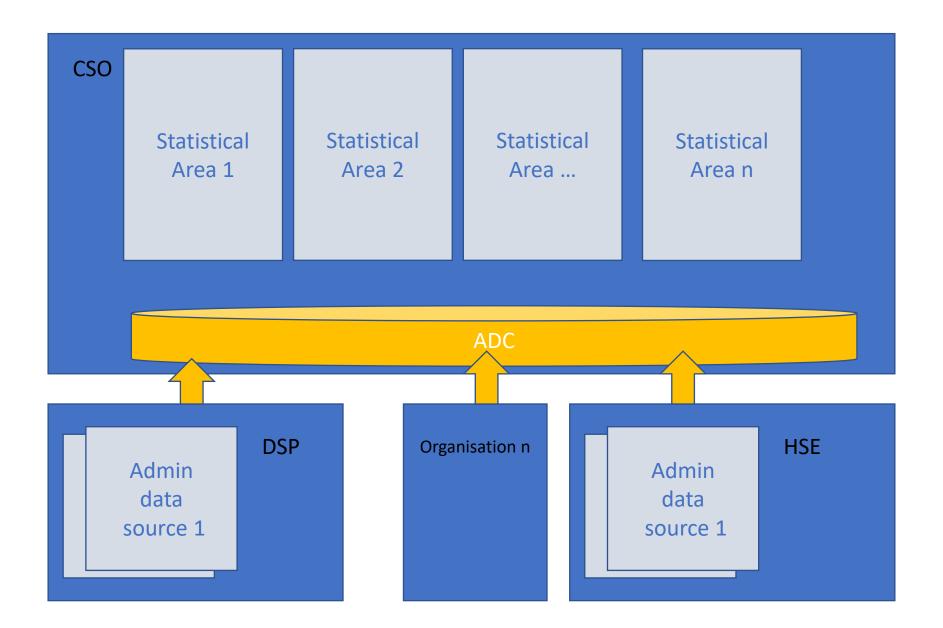


Key : Permanent official identification

National Data Infrastructure (NDI)

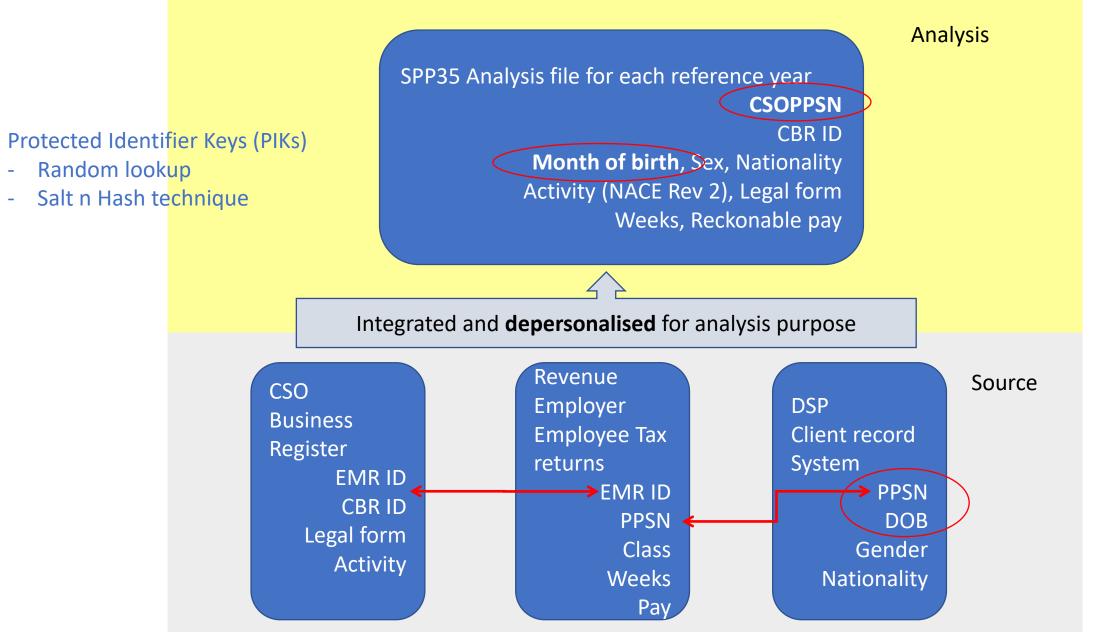


ADC Clearing house with safeguards



CSO Infrastructure ADC – Administrative Data Centre

Inside ADC – creating the Linked Employer Employee Data analysis file







- Underpinned by 5 SAFES
 - SAFE Project project in public interest and ethically sound, approval process via different management layers with Director General having final sign off (C19 projects include additional steps)
 - SAFE Setting remote desktop with restricted functionality (no print or internet), access restricted to a project folder on secure network
 - SAFE People registered bona fide researchers and research organisations that have received induction/training and signed up as Officers of Statistics
 - SAFE Data provenance of data, data documentation/metadata, data minimisation including pseudonymisation, note carries residual risk of indirect disclosure. CSO terminology: RMF (Research Micro File) as opposed to AMF (Anonymised Micro File)
 - SAFE Outputs Statistical Disclosure Control (SDC) applied and checked before allowing outputs off site. Outputs are recorded before being allowed offsite.



Mobilising to inform the national response

Institutional

Collaboration under S11, Stats Act between CSO, DoH, HSE, MU, OSi, UCD, ESRI, UL, NUI Galway on statistical reporting

S30.2(b) Stats Act Permission from the Minister of Health for CSO to collect data from HSE for C19 related statistical analysis and reporting (end of March)

S30 request from DG to HSE to collect data



Mobilising to inform the national response

Operational (reuse CSO Infrastructure)

Data collected via secure transmission and processed through ADC warehouse source and analysis tiers

RMFs created and made available to nominated 'researchers' under the Statistics Act within current CSO Researcher Infrastructure (C19 Data Research Hub)

5 SAFES apply - Persons, Projects, Data, Setting and Outputs





Opportunity knocks

Significant untapped research potential

- A little about the data sources (person level)
- Computerised Infectious Disease Record (CIDR)
- Covid Care Tracker (CCT)
- Hospital Inquiry Patient Discharges (HIPE)
- Referrals and test booking (A2I/SwiftQueue)
- Vaccination Information System (VIS) not yet available but planned



Prudent and safe approach to exploiting value

Factor in Health Research regulations

Research Ethics Committee

HRCDC (for Consent declaration)

Also Research Data Governance Board (RDGB) to advise/recommend to CSO DG has final say per Statistics Act



Last slide

https://www.cso.ie/en/aboutus/lgdp/csodatapolicies/dataforresearchers/covid-19dataresearchhub/

Contact Sanela Smith at C19ResearchInfo@cso.ie

Some acknowledgements - HRB, DoH, HSE, HRCDC



