

Better Together For Digital Healthcare

1st December 2023

Health Identifiers Service Update



Introduction

Hello, My Name is....

Maria McCann, Director Health Identifiers Service (HIDS)

Key Points

- IHI Live – and Open for Business
- IHI Features & Benefits
- IHI integration with National Systems
- IHI success hinges on frontline data quality efforts
- Better Together – Learn Together



Introduction to HIDS

HSE Health Identifiers Service (HIDS)



Legislation

- Health Identifiers Act 2014
- HIDs Act governs two separate national databases:
 - The National Register of Individual Health Identifiers (IHIs)
 - The National Register of Health Services Provider Identifiers
- Data Privacy Impact Assessments (DPIAs)



Team

- HIDS Team operate the Act on behalf of the Minister for Health
- Partnership between HIDS Business and HIDS Technical
- Maria McCann, Director HIDS Business (OPI Joe Ryan)
- Roisin Doherty, Director HIDS Technical (EHealth Fran Thompson)
- Business Partners across all programmes





Value of the IHI

Why the IHI is important Irish Healthcare

Improved Patient Safety

- Reducing the risk of medical errors associated with incorrect patient records or treatments.

Continuity of Care

- In time, the IHI will enable health records to be seamlessly accessible across care continuum

Efficient Healthcare Operations

- IHIs on patient records reduces administrative burdens, minimises duplication of efforts, and optimises resources.

Digital Solutions (Patient Empowerment)

- 'MyHealth App', Summary Care Record and Shared Care Record



IHI Key Points

Your IHI

- Everyone in Ireland has an IHI Number
- Your IHI is assigned to you for life, and will never be used for someone else
- Your Core IHI is a **10 digit number** (18 Digit in full GSI Format)
- Your IHI can be used to safely identify and link you across multiple health systems and services
- Will never contain clinical or health information

Bridget Murphy IHI 1234567899



Bridget Murphy, Wexford General (MRN 9999)

Bridget Murphy, Tallaght Hospital (MRN 8888)

Brid Murphy, Cork University Hospital (MRN 2222)

Bridgid Murphy, Oak Tree GP Practice (Patient Record 12345)

Bridget Murphy, COVID Vaccination (PPSN 123456789A)

Bridget Murphy, Cervical Screening (Patient Record 12345)

Biddy Murphy, Fair Deal NHSS (ID Number 98765)

Brigit Murphy, PCRS GP Visit Card (Card ID 987654)



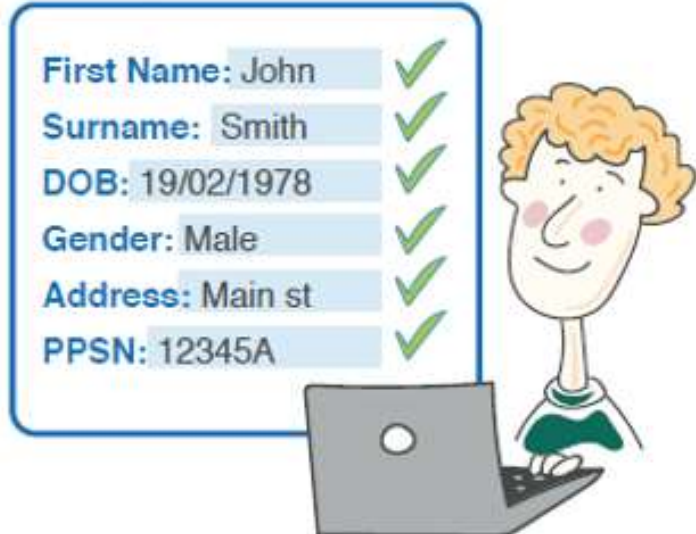
IHI – how to create a match

IHI Matching Logic

- HIDS utilise combinations of **9 searchable data items** to safely return an IHI
- When patient data meets the matching criteria, the IHI number is returned.
- Core 4 + 1
 - Surname (essential)
 - Former Surname
 - Forename (essential)
 - Middle Name
 - Sex (essential)
 - Date of Birth (essential)
 - Place of Birth
 - Date of Death
 - Mothers Birth Surname
 - Nationality
 - Home Address Line 1
 - Eircode
 - Email
 - Mobile Phone
 - Home Phone
 - Other Phone
 - PPSN
 - Unique System Identifier
 - PCRS Scheme Number
 - Medical Record Number
 - ~~Signature (not currently used)~~
 - ~~Photograph (not currently used)~~

IHI Match Rate

% of individuals in a data set who can be successfully matched with their IHI



First Name: John	✓
Surname: Smith	✓
DOB: 19/02/1978	✓
Gender: Male	✓
Address: Main st	✓
PPSN: 12345A	✓

9 Match Points used to Find your IHI

Core 4 - Essential

- Surname
- Forename
- Sex
- Date of Birth

"Plus 1"

- Address Line 1
- Eircode
- Mothers Birth Surname
- Mobile Phone
- PPSN



Data Returned:

- IHI
- Eircode
- Date of Death
- PPSN (in development)

IHI Matching - How it Works



Hospitals

- Surname
- Forename
- Sex
- Date of Birth
- Address Line 1
- Eircode
- Mobile Phone

75%



GP Practices

- Surname
- Forename
- Sex
- Date of Birth
- Address Line 1
- Eircode
- Mobile Phone

75%



NSS Cervical Check

- Surname
- Forename
- Sex
- Date of Birth
- Address Line 1
- Eircode
- PPSN

97%



COVAX C19 System

- Surname
- Forename
- Sex
- Date of Birth
- Mothers Birth Surname
- Address Line 1
- Eircode
- Mobile Phone
- PPSN

99%



IHI Consumer Engagement

IHI 2023 / 2023 Development Plan

- Acute – iPMS Shared Instances
- Acute – IPMS Single Instances
- Acute – Non IPMS Sites
- Audiology
- Children's Disability Network Team Information Management System (CDNTIMS)
- COVAX
- Covid Care tracker (CCT)
- Covid Research – Precise 5 Study
- Covid Research – The Fada Study
- Digital Health App
- GP Practice Management Systems
- Healthlink
- Hospital Medicines Management System (HMMS)
- HSE Cyber Breach
- IFMS
- Integrated Community E Health and ICT Programme (ICCMS)
- Integrated Information Systems (IIS)
- Integrated Financial Management Systems (IFMS)
- InterRAI
- National Cancer Information System
- National Cancer Registry Ireland
- National Forensic Mental Health Services
- National Rehabilitation Hospital
- National Safeguarding Team
- National Screening Services (Cervical, Breast, Bowel Diabetic Retina)
- National Treatment Purchase Fund (NTPF)
- NIO Schools Immunisation Service
- NIO Schools Immunisation Service 0 – 25
- Nursing Home Support Scheme (Fair Deal)
- Oral Health (Dental & Orthodontic Services)
- Organ Donation and Transplant Ireland
- PCRS
- Pharmavax
- Shared Care Record
- Summary Care Record
- Tusla – Birth Information & Tracing Act Support
- Ukraine Temporary Protection (TPU)



IHI and National Patient Systems

GP Practices

GP Practice System	No. IHIs Returned to GP Records	% IHI Match Rate
Socrates	4,277,704	88.8%
HealthOne	65,371	92.3%
Helix	16,792	86.2%
	4,359,867	89.1%

Primary Care Reimbursement Services (PCRS)

PCRS Scheme	No. IHIs Returned to PCRS Records	% IHI Match Rate
Drug Payment Scheme	460,519	97.7%
Doctor Visit Card	295,111	97.2%
General Medical Card	854,006	96.9%
	1,609,636	97.3%

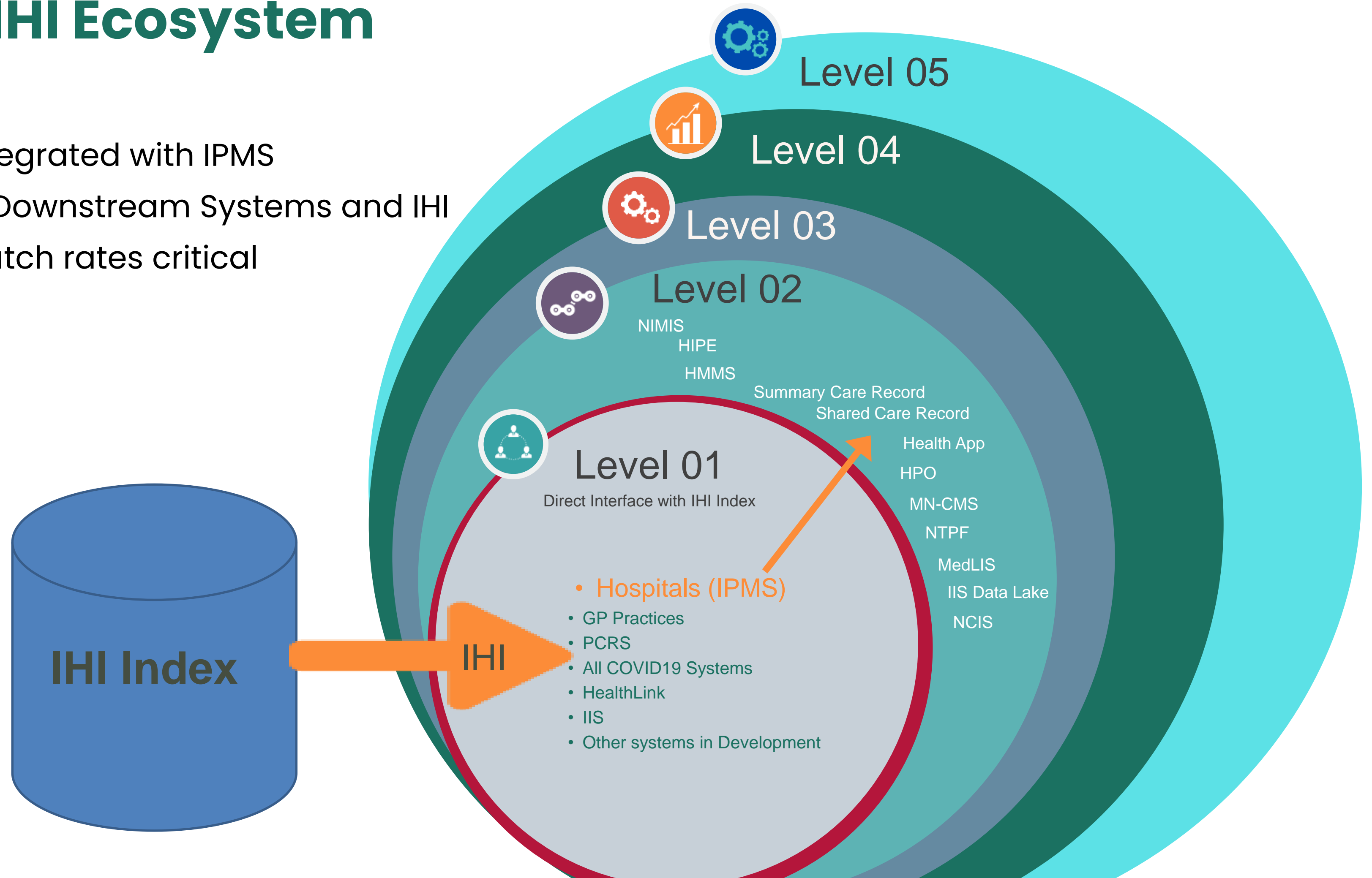
IHI Match Rates – Acute Hospitals (IPMS Systems)

Hospital Group	Future OP Appintment	Waiting List	Inpatient (<2 years)	Outpatient (<2 years)	ED Attendance (<2 years)
IPMS Saolta Multi Campus	83.10%	82.60%	81.50%	82.40%	70.90%
IPMS Midlands Multi Campus	80.10%	83.00%	80.80%	80.80%	72.50%
IPMS NE Multi Campus (RCSI)	83.30%	83.60%	82.00%	82.40%	73.80%
IPMS UL Shared Single Regional Instance	79.90%	80.50%	80.20%	80.30%	70.10%
IPMS South Multi Campus	81.60%	78.90%	76.60%	80.10%	72.00%
IPMS CHI Single instance	55.30%	53.80%	53.40%	55.20%	54.20%
IPMS NMH Single Instance (Holles St)	91.50%	88.60%	73.60%	89.40%	N/A
IPMS CWH Single Instance (Coombe)	91.30%	83.40%	72.20%	93.00%	95.30%
IPMS ROT Single Instance (Rotunda)	80.50%	81.50%	62.50%	83.10%	81.90%
IPMS TUH Single Instance (Tallaght)	TBC	TBC	TBC	TBC	TBC

- National IPMS (Recent Attendees) IHI Match Rate = 78%

IHI Ecosystem

- IHI integrated with IPMS
- IPMS Downstream Systems and IHI
- IHI Match rates critical





IHI Match Rate Improvement Initiatives

Patient Systems



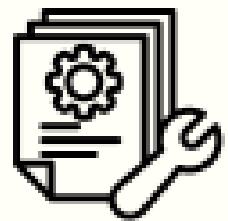
Data Standardisation

Ensure that all patient data entered follows a standard format.



Staff Education & Training

Ongoing training of staff to collect accurate patient information during registration.



Data Cleansing and Deduplication

Data cleansing algorithms to identify and merge duplicate records. IHI can support the identification of duplicates.



Regular Audits and Quality Checks

Regular audits of patient records to identify discrepancies and errors. Data quality checks to maintain data accuracy.

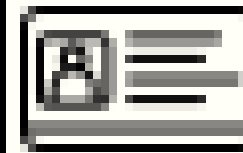


Health Identifiers Service



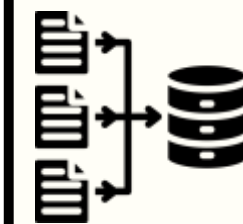
IHI Repair

On occasion, HIDS needs to examine a failed IHI records. Typically twins, siblings, mother/daughter, etc. Rapid response system in development



Additional Data (PPSN, DOD, Eircode)

Where a safe IHI match is made to the patients record, HIDS can automatically return additional data points for that record.



New Trusted Sources

HIDS working to update the IHI Index through continuous partnership with high value trusted sources.



Data Matching Algorithms

HIDS use a range of sophisticated data matching algorithms. Machine Learning and Artificial Intelligence bringing advances.



GP; IPMS Look back Report, PPSN Passback and Trusted Sources

GP Look back Report:

- To be completed when initial IHI Seeding of GP practices is complete.
- Clanwilliam system's fully Live
- Table below shows IHI match rates in GP systems to date.

GP Practice System	No. IHIs Returned to GP Records	% IHI Match Rate
Socrates	5,078,115	88.8%
Health One	65,458	92.2%
Helix PM	864,382	86.1%
Complete GP	155,319	92.1%

PPSN Pass back:

- An "IHI Data Output" paper, which will set out the business rules for PPSN Passback, has been developed in collaboration with HIDS Technical and is at review stage.
- PPSN project will consist of two phases:
 - Phase 1: PPSN Pass back in the IHI Response Payload
 - Phase 2: PPSN collection at the "front door"

New Trusted Sources:



An Roinn Iompair
Department of Transport

Nursing Homes
Support Scheme

Value to National IHI Register

Value to National IHI Register

Up to date address information

Nursing Home Address data

Up to date mobile phone information

Date of Death data



Data Sharing Agreement is in place.
Work progressing towards the IHI seeding of all HSE data held by NTPF.



Summary

Excited for the future:

- New born Babies and IHI assignment
- IPMS Partnership
 - HMMS
 - Rotunda and National Rehabilitation
- Trusted Sources
- Dashboards
- Annual Report and Collaborathon Report
- And so much more....



An Roinn Iompair
Department of Transport



Nursing Homes
Support Scheme



Summary



Better Together