



# Welcome and thank you for attending!



- Welcome to our September 2020 webinar.  
Thank you to our guest speaker Diederik Rood, senior advisor ERP Solutions & Project leader Dutch Implant Registry, Dijklander Hospital, the Netherlands
- Some housekeeping for today:
  - All attendees will be in listening-only mode
  - If you have questions during the presentation, please type them into the questions area and these will be monitored then answered at the end of the call
- After the webinar:
  - Within a week, the recording will be posted to: [http://www.gs1.org/healthcare/hpac\\_webinars](http://www.gs1.org/healthcare/hpac_webinars)
  - All previous webinars are also posted to this location, so please feel free to use this resource and share the link

# GS1 Healthcare Webinars



**Create a forum for the global clinical provider environment for thought leaders and adopters of GS1 Standards in healthcare. The final goal: improve patient safety, cost efficiency and staff productivity through the implementation of GS1 standards.**

**A forum for sharing and discussion**

**Identification of projects and case studies**

**A source of expertise and advice**

- The practical realities of implementation of GS1 Standards in the care giving environment in regard to the impact on clinical care and patient interaction
- Supporting the adoption of GS1 Standards in healthcare providers and retail pharmacies
- For publication, presentation and sharing
- To those involved in GS1 standards development, the wider Healthcare stakeholder community and senior executives/decision-makers to gain their buy-in and support for implementation of GS1 Standards

# Specific GS1 Healthcare Activities



## Webinars

- Bimonthly webinars open to all stakeholders interested in learning about GS1 standards implementation in the care giving environment.
- [http://www.gs1.org/healthcare/hpac\\_webinars](http://www.gs1.org/healthcare/hpac_webinars)

## Awards

- At each global GS1 Healthcare Conference
- Provider Implementation Best Case Study Award
- Provider Recognition Award
- The prize: travel & accommodation to attend the next GS1 Healthcare conference
- <http://www.gs1.org/healthcare/hpac>

**GS1 Healthcare holds two global conferences per year.  
In 2020 - due to the exceptional circumstances – we will host an  
online summit, November 17-19, 2020.**

# Presenting today



## Diederik Rood

- Senior advisor ERP Solutions
- Project leader Dutch Implant Registry
- At the Dijklander Hospital, in the Netherlands
- Member of the GS1 Netherlands healthcare knowledge group



Diederik Rood  
Senior advisor ERP Solutions &  
Project leader Dutch Implant Registry  
*Dijklander Hospital, Hoorn & Purmerend*  
*The Netherlands*

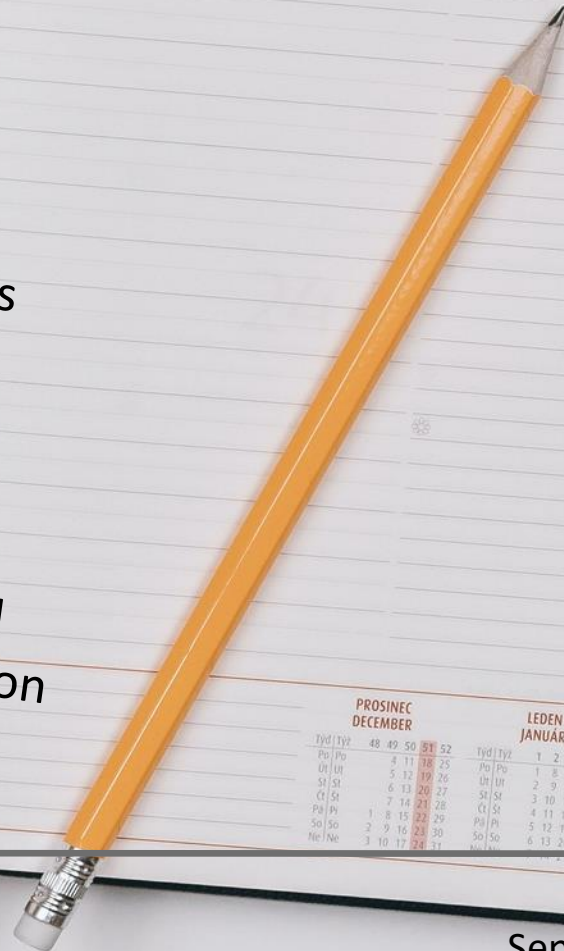


A pathway to scan medical devices in the Operating Room  
using GS1 UDI barcodes for efficient registrations, improved inventory management  
and patient safety

# Agenda

- Introduction Dijklander Hospital
- Operating room logistics
  - Why we started (goals)
  - How we started
  - Benefits of operating room logistics
  - Lessons learned
- Dutch Implant Registry
  - Regulations Dutch Implant Registry
  - Gathering of data – connect to GDSN
  - Our solutions for gathering information
  - Lessons learned
  - The next steps to take

Sept 17, 2020



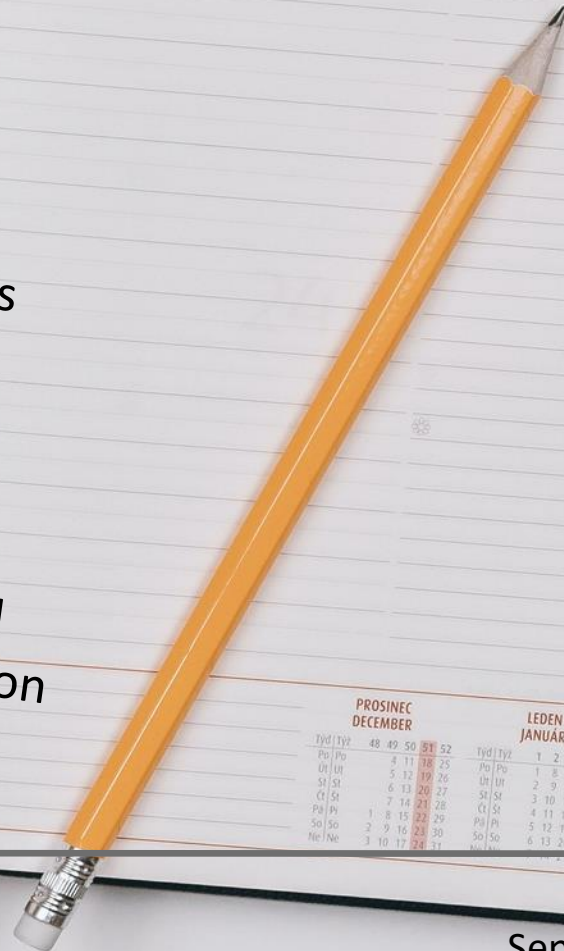
PROSINEC DECEMBER												LEDEN JANUAR											
Tyd	Tyz	48	49	50	51	52	Tyd	Tyz	1	2	3	4	5										
Po	Po	4	11	18	25		Po	Po	1	8	15	22	29										
Ut	Ut	5	12	19	26		Ut	Ut	2	9	16	23	30										
St	St	6	13	20	27		St	St	3	10	17	24	31										
Cr	St	7	14	21	28		Cr	St	4	11	18	25											
Po	Pr	1	8	15	22	29	Po	Pr	5	12	19	26											
So	So	2	9	16	23	30	So	So	6	13	20	27											
Ne	Ne	3	10	17	24	31	Ne	Ne															

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Po	Po	1	8	15	22	29	Po	Po	5	12	19	26											
So	So	2	9	16	23	30	So	So	6	13	20	27											
Ne	Ne	3	10	17	24	31	Ne	Ne															

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**Verenigd  
Koninkrijk**

Isle of Man

**Ierland**

Dublin

Manchester  
Liverpool

Londen

Amsterdam

**Nederland**

Brussel

**België**

Luxemburg

Parijs

Keulen

**Duitsland**

Frankfurt  
am Main

München

September 17, 2020

**Oostenrijk**

Praag

**Tsjechië**

Berlijn

Hamburg

**Denemarken**

Kopenhagen

Google

# Introduction Dijklander Hospital



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St   St	6	13	20	27			St   St	3	10	17	24	31	
Cr   Cr	7	14	21	28			Cr   Cr	4	11	18	25		
Pa   Pa	1	8	15	22	29		Pa   Pa	5	12	19	26		
So   So	2	9	16	23	30		So   So	6	13	20	27		
Ne   Ne	3	10	17	24	31		Ne   Ne						

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# Goals

- Integrate the solution in three systems: ERP, EMR, MIS
- More efficient processes for the purchase, logistics, finance and Operating theatre departments
- Improved warehouse management
- Track and trace of implants to improve patient safety
- More accurate cost calculation of procedures
- Comply to medical registries

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Di   Di	5	12	19	26			Di   Di	2	9	16	23	30	
Wo   Wo	6	13	20	27			Wo   Wo	3	10	17	24	31	
Do   Do	7	14	21	28			Do   Do	4	11	18	25		
Vr   Vr	1	8	15	22	29		Vr   Vr	5	12	19	26		
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# How we started

- **Appoint a broad project team**
- Develop knowledge about barcodes
- Workshops to identify processes and solutions
- Our operating room logistics solution
- Collect Data

Purchasing

Finance

IT (ERP & EMR)

Logistics

Operating Theatre



# How we started

- Appoint a broad project team
- Develop knowledge about barcodes
- Workshops to identify processes and solutions
- Our operating room logistics solution
- Collect Data



SOUZA

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# UDI (GS1 barcode)

## Application Identifiers (AI's)



- 01 GTIN
- 17 Expiry date
- 10 Batch number
- 21 Serial number



# How we started

- Appoint a broad project team
- Develop knowledge about barcodes
- **Workshops to identify processes and solutions**
- Our operating room logistics solution
- Collect Data

Identify  
current  
processes

Define  
possible  
solutions

Identify  
(business)  
process  
changes

Identify  
requirements

Work out  
and present  
the solution

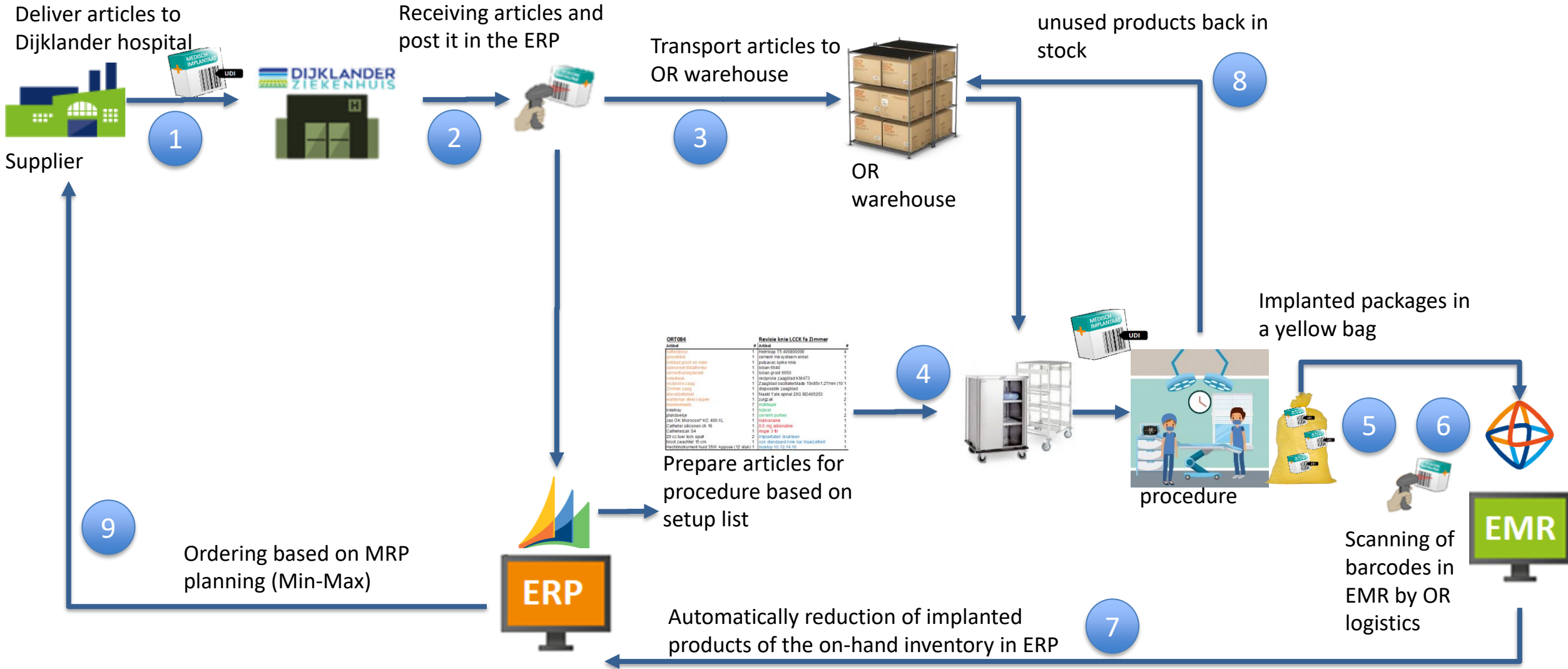
Develop the  
solution



# How we started

- Appoint a broad project team
- Develop knowledge about barcodes
- Workshops to identify processes and solutions
- **Our operating room logistics solution**
- Collect Data

# Operating room logistics



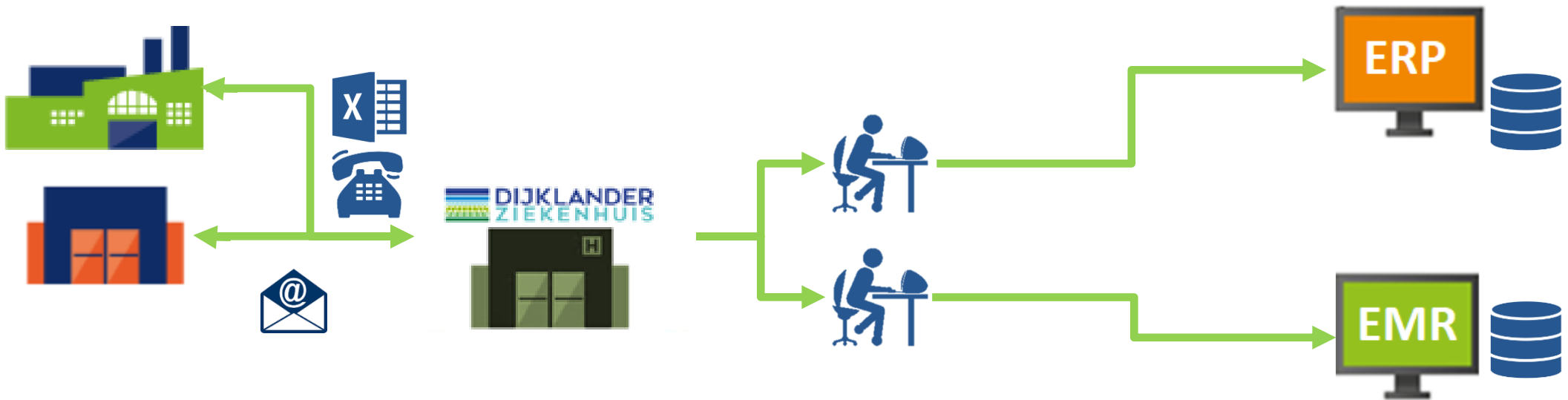


# How we started

- Appoint a broad project team
- Develop knowledge about barcodes
- Workshops to identify processes and solutions
- Our operating room logistics solution
- **Collect Data**

# Collecting product data in 2016 - 2018

- Contacting Supplier:
  - Collecting the product data (GS1/HIBC)
  - Gathering GTIN and product information
  - Uploading manually in our ERP and EHS



# Collecting product data in 2016 - 2018

- Contacting Supplier:
  - Gathering product information (product description/external reference)
- Gathering by the hospital:
  - Manually registering GTIN based on:
    - Product name
    - External reference number
  - Manually processing the data into our ERP and EHS



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Do   Do	7	14	21	28			Do   Do	4	11	18	25		
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Ne   Ne	3	10	17	24	31		Ne   Ne						

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# Overview of the expiry date

Products in stock with:

- Batch number
- Expiry date

Overview

General

<input type="checkbox"/>	Item number	Search name	Batch number	Expiration date ▲	Total available
	319275	RetroButton 12 mm	10017758	1-11-2020	1,00
	318423	Multiloc ø7 mm	5936825	1-11-2020	1,00
	318564	Cortex screw ø2.4 mm	3607801	1-11-2020	2,00
	319287	Biocomp. Screw	10260166	1-11-2020	2,00
	314259	Endurant unicraft st	V08154689	5-11-2020	1,00
	500745	BHX Implant 4mm	154737	18-11-2020	1,00
	313067	Ooglenz Tecnis 1-pie	9465761611	21-11-2020	1,00
	502168	Prolong Lps-Flex Art	63214905	30-11-2020	1,00
	317717	Stapler	P5L0594X	30-11-2020	1,00
	319278	RetroButton 12 mm	10024233	1-12-2020	1,00
	314255	Endurant unicraft st	V08176788	4-12-2020	1,00
	318773	Cancellous screws	3640548	8-12-2020	1,00
	314261	Endurant unicraft st	V08180415	9-12-2020	1,00
	314261	Endurant unicraft st	V08180414	9-12-2020	1,00
	502012	Stent Advanta	425795078	19-12-2020	1,00
	500736	Bio-gide 25x25	81800351	21-12-2020	3,00
	501660	Chronos strip 0,3 mm	DS7002029	1-1-2021	3,00
	319273	Juggerknot 1.4 mm	779370	1-1-2021	1,00
	319628	Silastic Rode 3mm	1481045	1-1-2021	1,00
	318532	ASLS ø5.0 mm Selfta	2684953	1-1-2021	3,00
	318541	ASLS ø5.0 mm Resorb	L258854	1-1-2021	4,00
	318429	Multiloc ø7 mm	5937681	1-1-2021	1,00
	502430	VBS w/Balloon	1217009	1-1-2021	3,00
	314257	Endurant unicraft st	V08199469	7-1-2021	1,00
	314263	Endurant unicraft st	V08216069	27-1-2021	1,00
	314820	Endurant uni craft	V08222584	30-1-2021	1,00

Minimizing the waste  
of expired items

# Overview critical on-hand inventory

Overview with  
“critical” items

All the items with a  
stock value below the  
minimum stock are  
shown

## Kritieke voorhanden voorraad

Stichting Dijklander Ziekenhuis

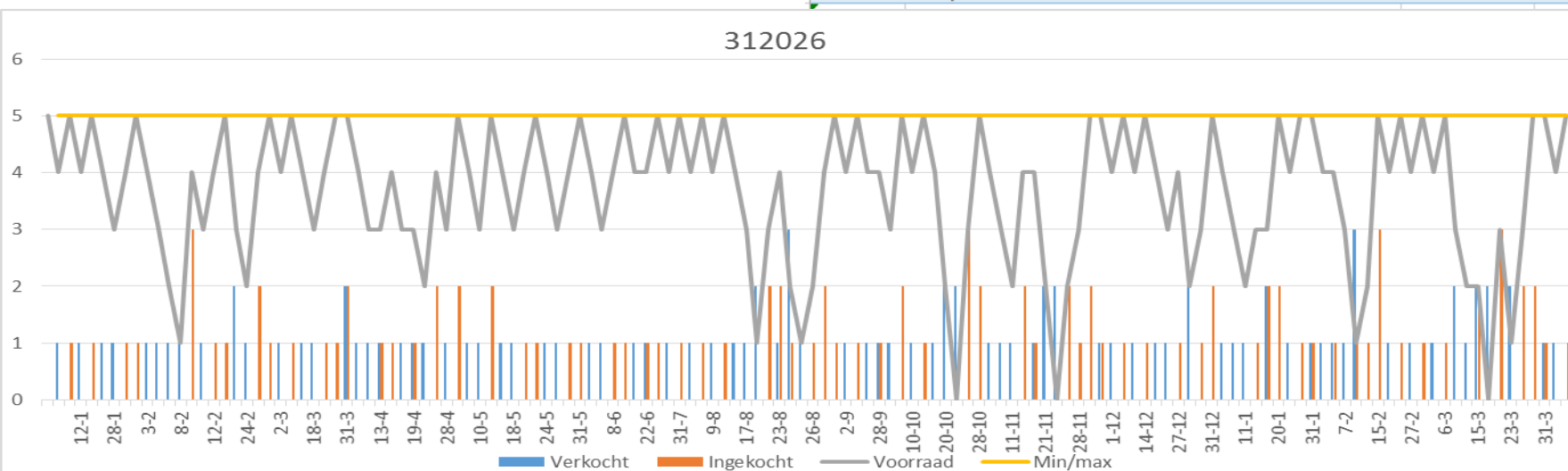
Artikelnummer	Productnaam	Configuratie	Verrichtingscode	Kleur	Site	Magazijn	Batchnummer	Locatie	Min.voorraad	Fysieke voorraad	Besteld
311973	Knieprothese flex femur maat F rechts 00596401652				Hoorn	OK			5,00	4,00	
312023	Knieprothese patella 38 00597206538				Hoorn	OK			7,00	6,00	
312038	Knieprothese tibial tray 6 00598604702				Hoorn	OK			6,00	5,00	
312053	Pinnacle 100 acet cup 50mm 121701050				Hoorn	OK			7,00	6,00	1,00
312054	Pinnacle 100 acet cup 52mm 121701052				Hoorn	OK			7,00	6,00	1,00
312056	Pinnacle 100 acet cup 56mm 121701056				Hoorn	OK			6,00	4,00	1,00
312063	Pinn mar 500DX28 ID 121928050				Hoorn	OK			7,00	6,00	1,00
312107	Heup Articuleze BioloX Delta kopje 28mm +1.5 136528310				Hoorn	OK			6,00	5,00	1,00
312121	Heup Corail2 std size 9 collared 3L92499				Hoorn	OK			3,00	2,00	1,00
312124	Heup Corail2 std size 12 collared 3L92502				Hoorn	OK			6,00	4,00	2,00
312126	Heup Corail2 std size 14 collared 3L92504				Hoorn	OK			5,00	4,00	
312192	Heup kop Pinnacle Apex Hole elim positive stop 124603000				Hoorn	OK			14,00	10,00	3,00
313093	Ooglens Tecnis 1-piece 25.5D				Hoorn	OK			4,00	3,00	
313094	Ooglens Tecnis 1-piece 25.0D				Hoorn	OK			4,00	3,00	
313098	Ooglens Tecnis 1-piece 23.0D				Hoorn	OK			12,00	11,00	
313100	Ooglens Tecnis 1-piece 22.0D				Hoorn	OK			13,00	12,00	
313101	Ooglens Tecnis 1-piece 21.5D				Hoorn	OK			13,00	12,00	

# Adjustment of stock values

Overview						General	Lead time	Min./Max.	Dimension
<input type="checkbox"/>	Site	Warehouse	Minimum	Maximum	Coverage group				
	Norm	OK	4,00	4,00	MinMax				

Adjust min/max stock values based on historical transactions

artnr.	Artikelnaam	Totaal 2019	max vv	gem vv	Min	Max	(Min vr- max vv) - 1 art voorraad
311955	Knieprothese Gender maat C links 00576401351	0,00	0,00	0,00	2	2	1
311956	Knieprothese Gender maat C rechts 00576401352	0,00	0,00	0,00	2	2	1
311957	Knieprothese Gender maat D links 00576401451	-1,00	-1,00	-0,02	2	2	0
311958	Knieprothese Gender maat D rechts 00576401452	-1,00	-1,00	-0,05	2	2	0
311959	Knieprothese Gender maat E links 00576401551	-1,00	-1,00	-0,06	3	3	1
311960	Knieprothese Gender maat E rechts 00576401552	-3,00	-2,00	-0,14	3	3	0
311961	Knieprothese Gender maat F links 00576401651	-2,00	-1,00	-0,09	3	3	1
311962	Knieprothese Gender maat F rechts 00576401652	0,00	-2,00	-0,26	3	3	0
311963	Knieprothese Gender maat G links 00576401751	0,00	-1,00	-0,02	2	2	0
311964	Knieprothese Gender maat G rechts 00576401752	-2,00	-1,00	-0,08	2	2	0
311965	Taper stem plug 00596009900	-4,00	-2,00	-0,38	3	3	0
311966	Knieprothese flex femur maat C links 00596401351	0,00	-1,00	-0,02	2	2	0
311967	Knieprothese flex femur maat C rechts 00596401352	-1,00	-1,00	-0,03	2	2	0
311968	Knieprothese flex femur maat D links 00596401451	-5,00	-3,00	-0,48	5	5	1
311969	Knieprothese flex femur maat D rechts 00596401452	-3,00	-2,00	-0,45	5	5	2



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# Recall data

Search name	Site	Batch number	Physical in...	Physical reserved	Available ...	Ordered in...	On order	Ordered re...	Total avail...	External item number
Knieprothese patella	Hoorn	64279521	1,00		1,00				1,00	0059726532
Knieprothese patella	Hoorn	64307699	1,00		1,00				1,00	0059726532
Knieprothese patella	Hoorn	64315706	1,00		1,00				1,00	0059726532
Current on-hand inventory with batch number										

Party	Warehouse	Batch number	Location	Physical date	Packing slip	Reference	Number	Quantity
	OK	64222622	OK	17-4-2019		Production line	0000820183	-1,00
Zimmer BV (klnnr. 117279)	OK	64224635	OK	18-4-2019	25861504	Purchase order	19-037986	1,00
Zimmer BV (klnnr. 117279)	OK	64224635K1	OK	18-4-2019	25861504	Purchase order	19-037986	1,00
	OK	64224634	OK	25-4-2019		Production line	0000821130	-1,00
Zimmer BV (klnnr. 117279)	OK	64232819	OK	26-4-2019	2871744	Purchase order	19-038586	1,00
	OK	64222622	OK	2-5-2019		Production line	0000820374	-1,00
	OK	64224635	OK	2-5-2019		Production line	0000820404	-1,00
	OK	64224635K1	OK	2-5-2019		Production line	0000827237	-1,00
Zimmer BV (klnnr. 117279)	OK	64279513	OK	3-5-2019	2882169	Purchase order	19-039432	1,00
Zimmer BV (klnnr. 117279)	OK	64279513	OK	3-5-2019	2882279	Purchase order	19-039480	2,00
	OK	64232819	OK	7-5-2019		Production line	0000819618	-1,00
Zimmer BV (klnnr. 117279)	OK	64297012	OK	8-5-2019	2889099	Purchase order	19-039751	1,00
	OK	64279513	OK	9-5-2019		Production line	0000817925	-1,00
Zimmer BV (klnnr. 117279)	OK	64238583	OK	15-5-2019	2900023	Purchase order	19-039844	1,00
	OK	64279513	OK	3-6-2019		Production line	0000824198	-1,00
Zimmer BV (klnnr. 117279)	OK	642567	OK	4-6-2019	2930561	Purchase order	19-041299	1,00
	OK	64279513	OK	12-6-2019		Production line	0000820281	-1,00
Zimmer BV (klnnr. 117279)	OK	64324744	OK	13-6-2019	2945204	Purchase order	19-042059	1,00
	OK	64297012	OK	19-6-2019		Production line	0000825111	-1,00
	OK	642567	OK	20-6-2019		Production line	0000822932	-1,00
Zimmer BV (klnnr. 117279)	OK	64279521	OK	20-6-2019	2956676	Purchase order	19-042541	1,00
Zimmer BV (klnnr. 117279)	OK	64279521	OK	21-6-2019	2958899	Purchase order	19-042613	1,00
	OK	64238583	OK	27-6-2019		Production line	0000821123	-1,00
Zimmer BV (klnnr. 117279)	OK	64315706	OK	28-6-2019	6006710	Purchase order	19-043017	1,00
	OK	64324744	OK	28-6-2019		Production line	0000826078	-1,00

Search for batch numbers

Search for operation number

Transaction overview  
where we can search  
where recalled batches are  
used

# Cost-price per procedure

Each procedure is posted in the general ledger account with the financial dimensions: specialism, procedure, products for management information and insight into cost price per procedure

0000840583

Operation date: 3-12-2019

Specialism: ORT

Quantity: 1,00

Procedures

References

Item consumption

<input type="checkbox"/>	Item number	Batch number	Quantity	N	
	311975	64183360A19	1,00	<input type="checkbox"/>	
	312023	64428278E19	1,00	<input type="checkbox"/>	
	312039	63778641K17	1,00	<input type="checkbox"/>	
	502178	64202281	1,00	<input type="checkbox"/>	

Update

Inventory dimensions

Project

Financial dimensions

Default financial dimensions

Artikel:	ORT	ORTHOPEDIE
Kostenplaats:	2011	OK-chirurgie H
Lening:		No default
Periode:		No default
Project:	OK	OK Logistiek
Specialisme:	ORT	ORTHOPEDIE
Verrichting:	338662T	KNIE - TOTALE PROTHESE ARTROPLASTIEK

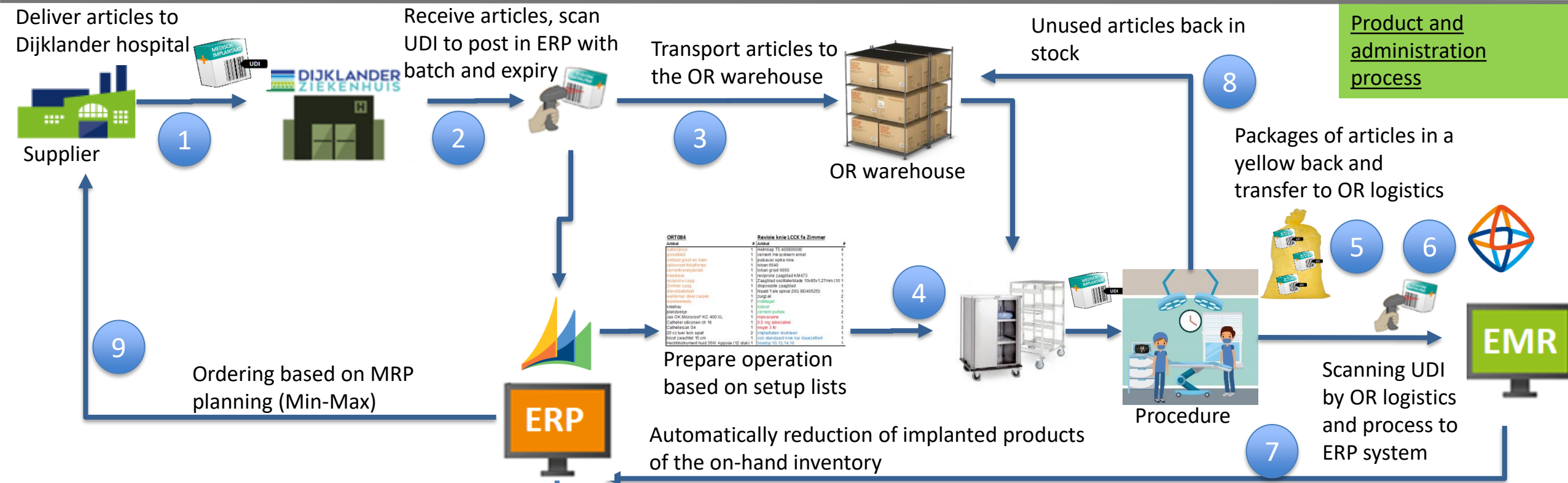
<input type="checkbox"/>	Item number	Consumption registration	Quantity	Unit	Product name	Description
	312023	Consumption afterwards	1,0000	ST	Patella 38	
	502178	Consumption afterwards	1,0000	ST	Prolong Lps-Flex Art Surf Gh/7-10 12	
	312039	Consumption afterwards	1,0000	ST	Knieprothese tibial tray 7 OPTION	
	311975	Consumption afterwards	1,0000	ST	Knieprothese femoral non-flex maat G rechts	
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	grondblad
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	batterijboor
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	botblad
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	kniesteun
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	knienavigatieset
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	bij 3de knie: VKB BHR knie nav.2
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	bij hemiknie uit-totale knie in; klein botblad
	INSTRUMENT	Vrije-tekst	1,0000	ST	INSTRUMENT	bij hemiknie uit-totale knie in; drevelbeitelset
	207846	Bulk item	1,0000	ST	knietray	
	085393	Bulk item	1,0000	ST	plakdoekje	
	206705	Bulk item	2,0000	ST	20 cc luer lock spuit	
	301059	Bulk item	1,0000	ST	cement mixsysteem enkel	
	086387	Bulk item	3,0000	ST	Helmkap T5 400800000	
	087046	Bulk item	1,0000	ST	loban 6640	
	087047	Bulk item	1,0000	ST	loban groot 6650	
	305886	Bulk item	1,0000	DS...	naa	
	316205	Bulk item	1,0000	DS...	He	
	087087	Bulk item	1,0000	ST	tric	
	225530	Bulk item	1,0000	ST	pul	
	078816	Bulk item	1,0000	DS...	dis	
	500496	Bulk item	1,0000	ST	Heckmaninstrument hold 33W Appose (12 stu...	
	011630	Bulk item	1,0000	DS	Naald Yale spinal 20G BD405253	
	230884	Bulk item	3,0000	DS...	navigatiebolletjes	

Overview with the setup list for each operation with the scanned implants

A close-up photograph of several interlocking metal gears. The gears are made of a light-colored metal, possibly aluminum or steel, and show signs of wear and machining. The teeth of the gears are sharp and well-defined. The background is slightly blurred, focusing attention on the intricate mechanical details of the gears.

# Automated and improved processes

# Operating room logistics – complete overview



## Article overview per procedure

- Overview by setup lists per procedure
- Scanned articles after consumption
- Compare the same procedures

## Financial overview

- Insight cost price per procedure
- Compare procedures
- Negotiations with insurers

## Management of inventory

- Order automatically based on min-max stock value
- Checking expired items
- Control loss and shrinkage
- Adjustments of stock value based on historical transactions

## Track and trace:

- What is the routing of articles
  - Which articles do we have in stock?
- Recall:**
- Quickly find the procedure where recalled batches are implanted
  - How many items are on-hand?

## Results, insights and overview

# Agenda

- ~~• Introduction Dijklander Hospital~~
- Operating room logistics
  - Why we started (goals)
  - How we started
  - Benefits of operating room logistics
  - **Lessons learned**
- Dutch Implant Registry
  - Regulations Dutch Implant Registry
  - Gathering of data – connect to GDSN
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  - The next steps to take

Sept 17, 2020

PROSINEC DECEMBER							LEDEN JANUAR						
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Vr   Vr	1	8	15	22	29		Vr   Vr	5	12	19	26		
So   So	2	9	16	23	30		So   So	6	13	20	27		
Ne   Ne	3	10	17	24	31		Ne   Ne						

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# Lessons Learned

- Involve everyone and keep them informed
- Start small and scale up after success
- Centralize barcode scanning and processing

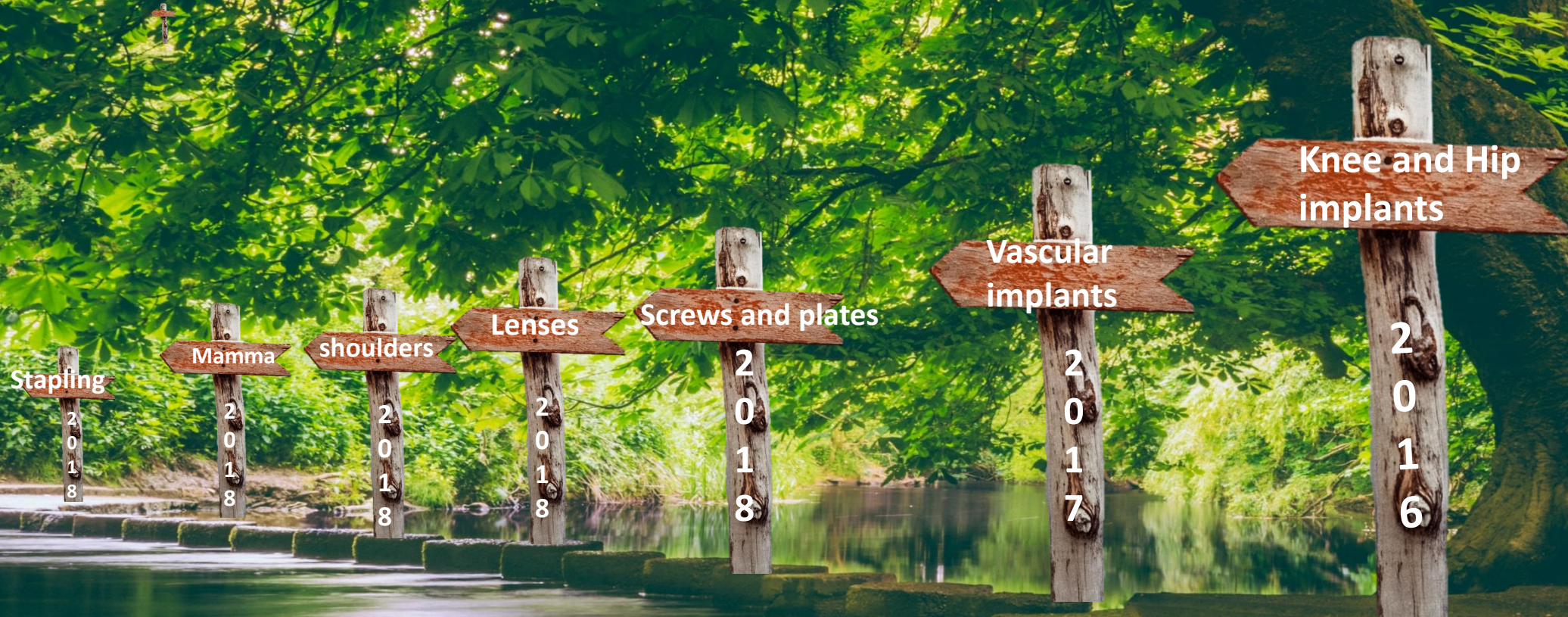


Involve everyone  
and keep them  
informed

# Start small, test and scale after success



# The pathway of Dijklander hospital



# Centralize barcode scanning

EXPERT



(01) 1022222333334(17) 091231(10) A1345E(21) 1234

# Agenda

- ~~Introduction Dijklander Hospital~~
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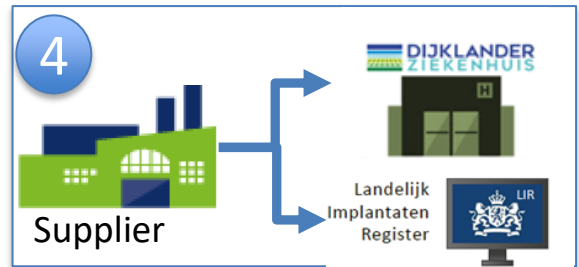
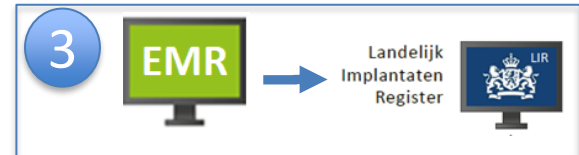
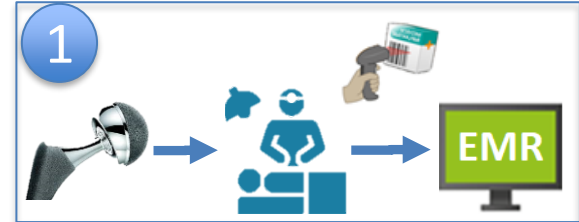
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# Dutch Implant Registry regulations

1. Register the implant data in the electronic medical record of the patient;
2. Providing the implant data to the patient in writing or digitally
3. Sending implant data to the Dutch Implant Registry
4. Ensure that the supplier of implants makes the correct article data available to:
  1. The hospital;
  2. Dutch Implant Registry.



# Data we need to receive via the GDSN

1. Product description
  1. Trade item description
  2. Functional name
  3. Brand name
2. External reference
3. GTIN of the product
4. GLN manufacturer
5. Brand owner or party name
6. GMDN Code
7. SNOMED Code
8. Additional trade Item Identification type (for HIBC Barcodes)
9. Additional Trade Item Identification (for HIBC Barcodes)



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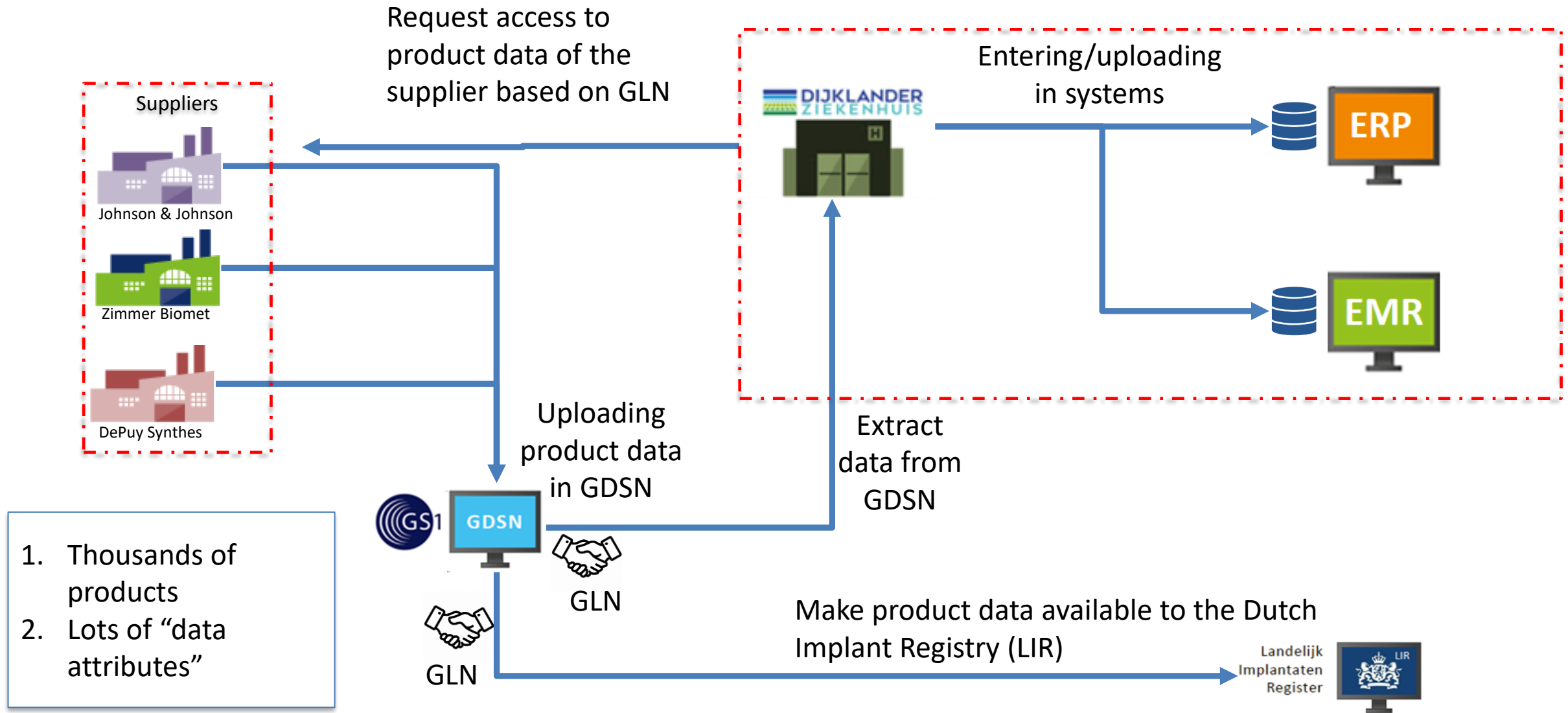
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SOUZA

?

# Gathering of data – connecting to the GDSN



# Agenda

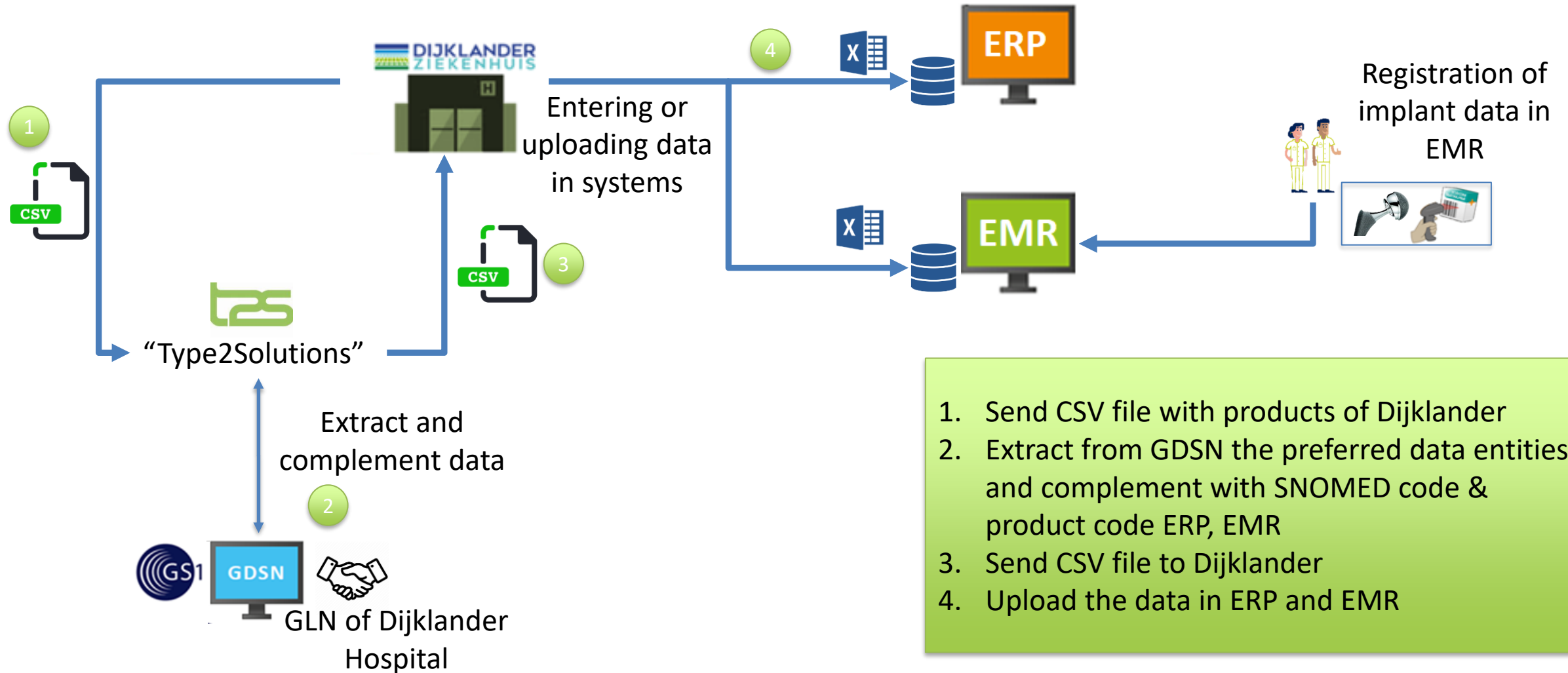
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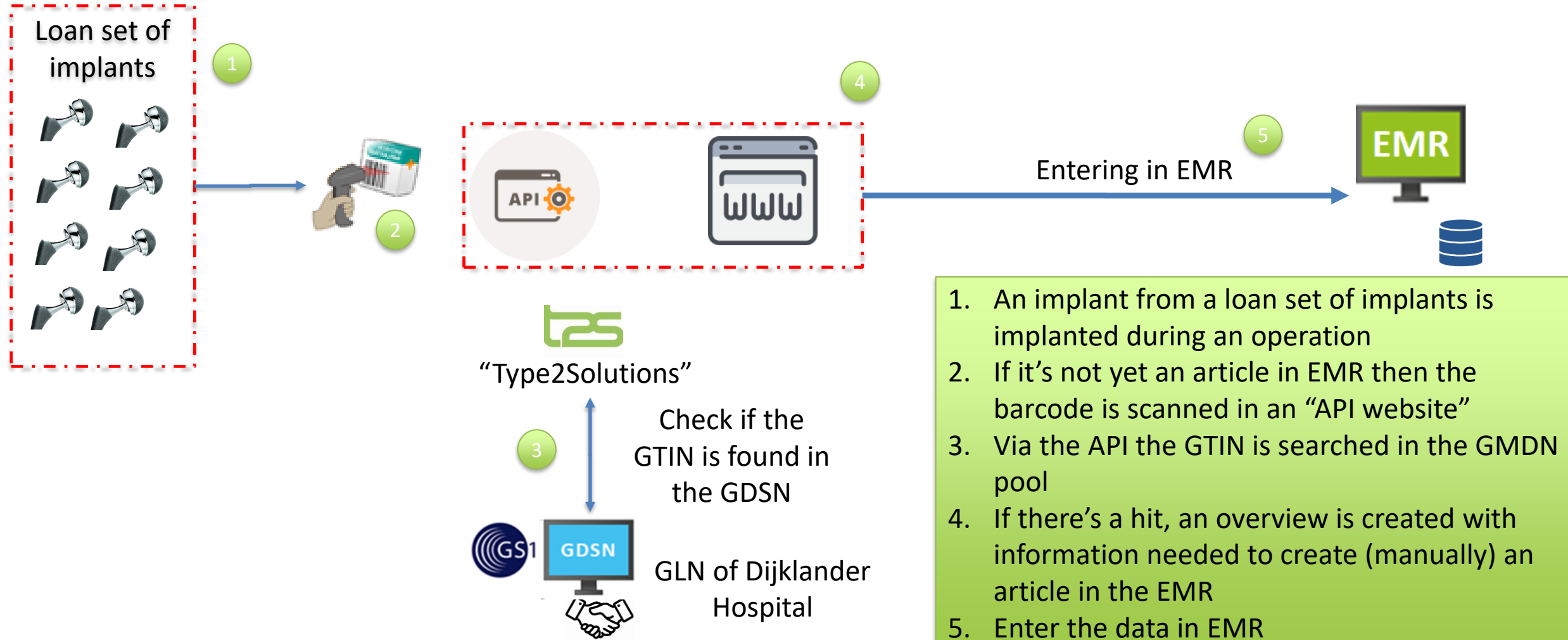
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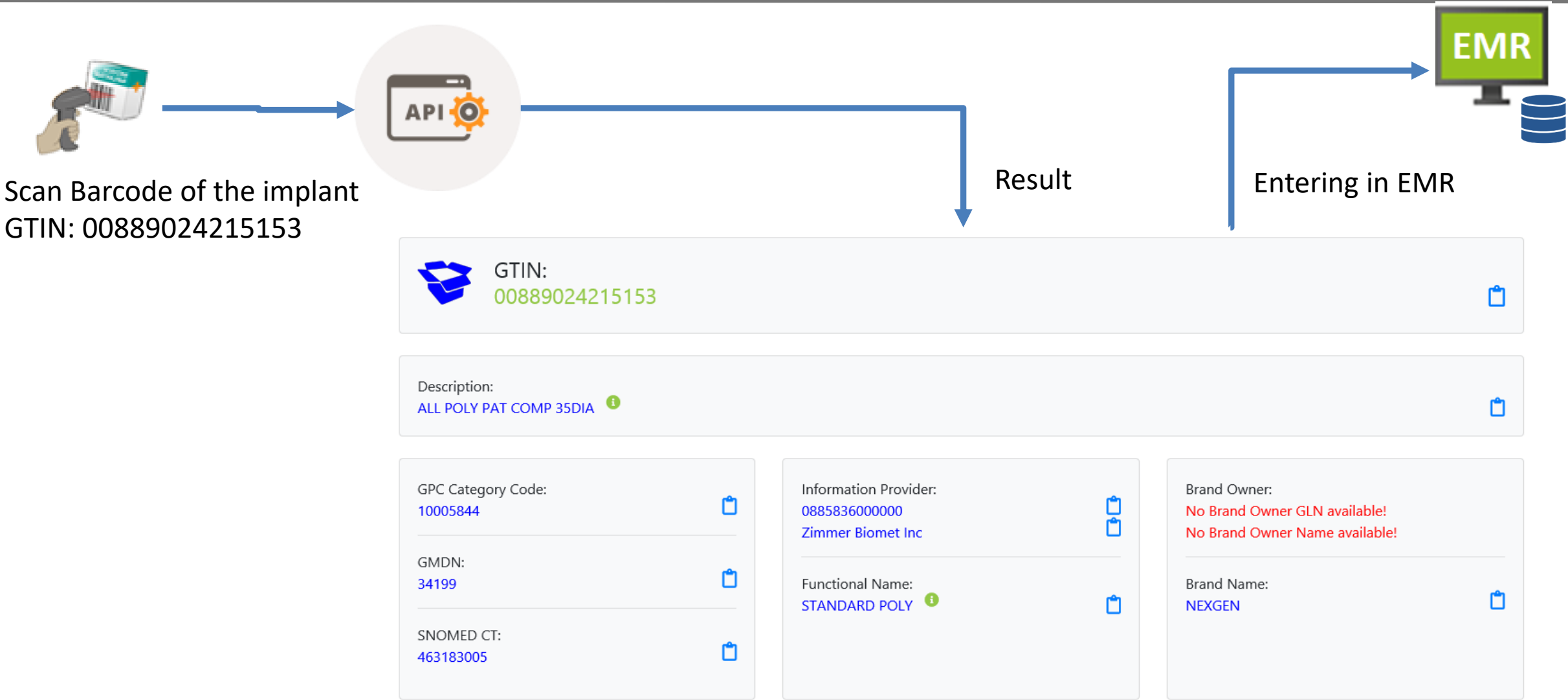
# Gathering the right product data – our solution



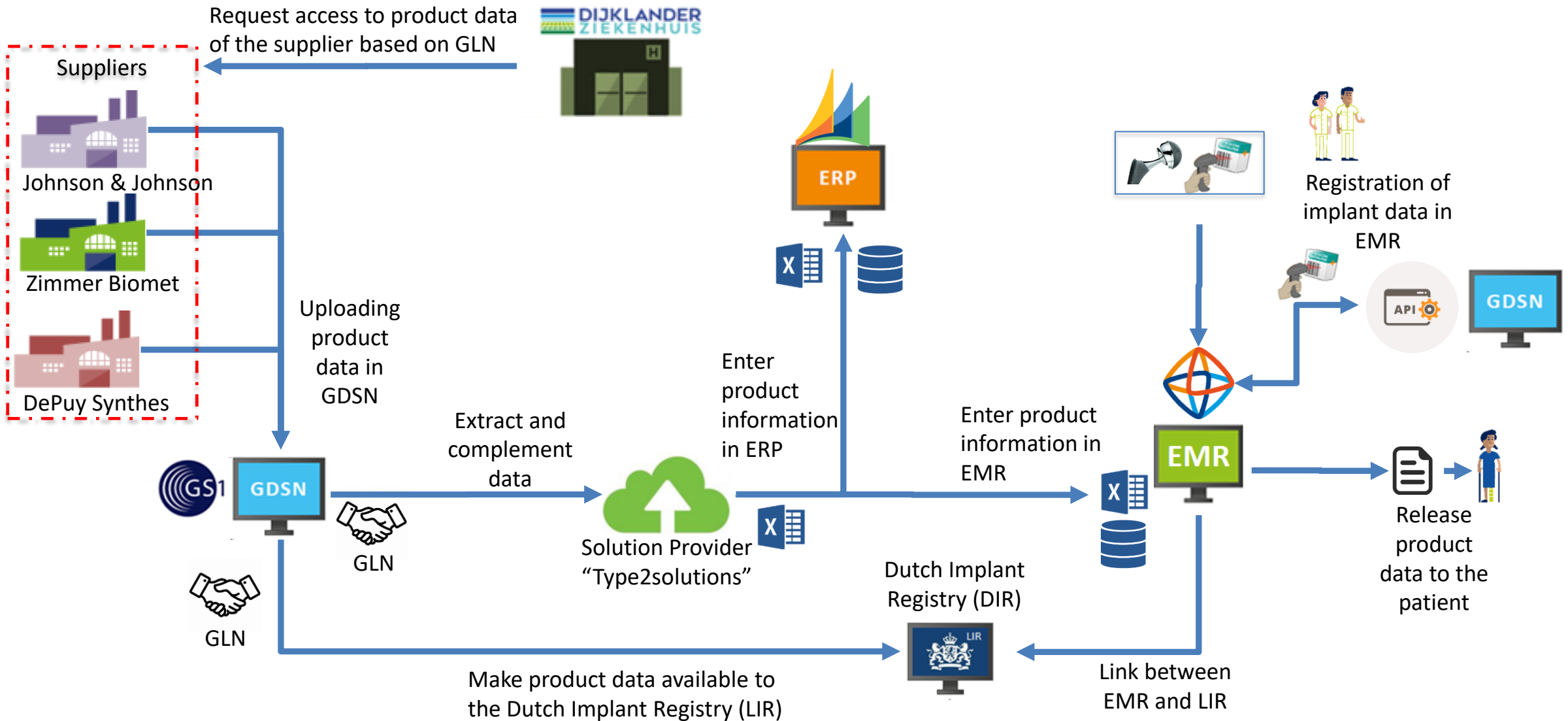
# Gathering product data with API solution



# Quickly show the API



# Gathering of data via GDSN – total overview



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# Lessons Learned

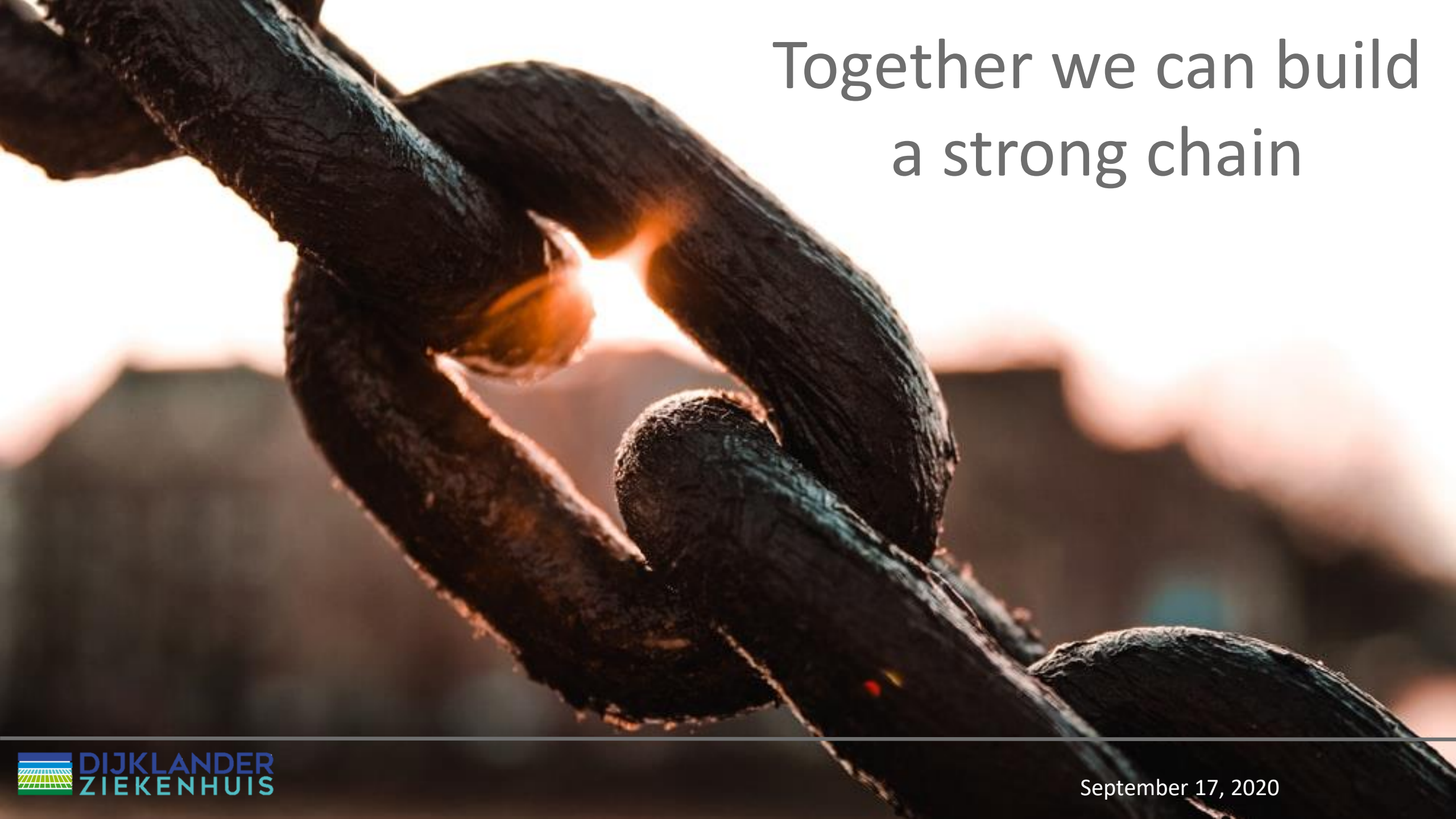
- Start to connect with the GDSN and make handshakes
- Monitor your data
- Together we can build a strong chain
- Take advantage of moments when systems are renewed or upgraded
- Continue to seek for improvements in processes

Start to connect with the GDSN  
and make handshakes



# Monitor your data





Together we can build  
a strong chain

# Take advantages of updates





Search for the next  
step to improve

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Linking systems

New ERP

Clinical logistics

Centralized  
master data



# Questions Answers

# GS1 Healthcare webinar: Questions and contact details



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