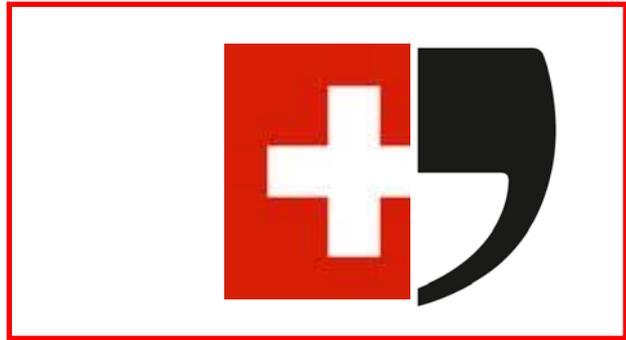


# Securing the narcotic supply chain in Switzerland

Laurent Médioni, Canton Pharmacist



Healthcare Conference, Geneva, 22<sup>nd</sup> of June 2010





**Gruyères**

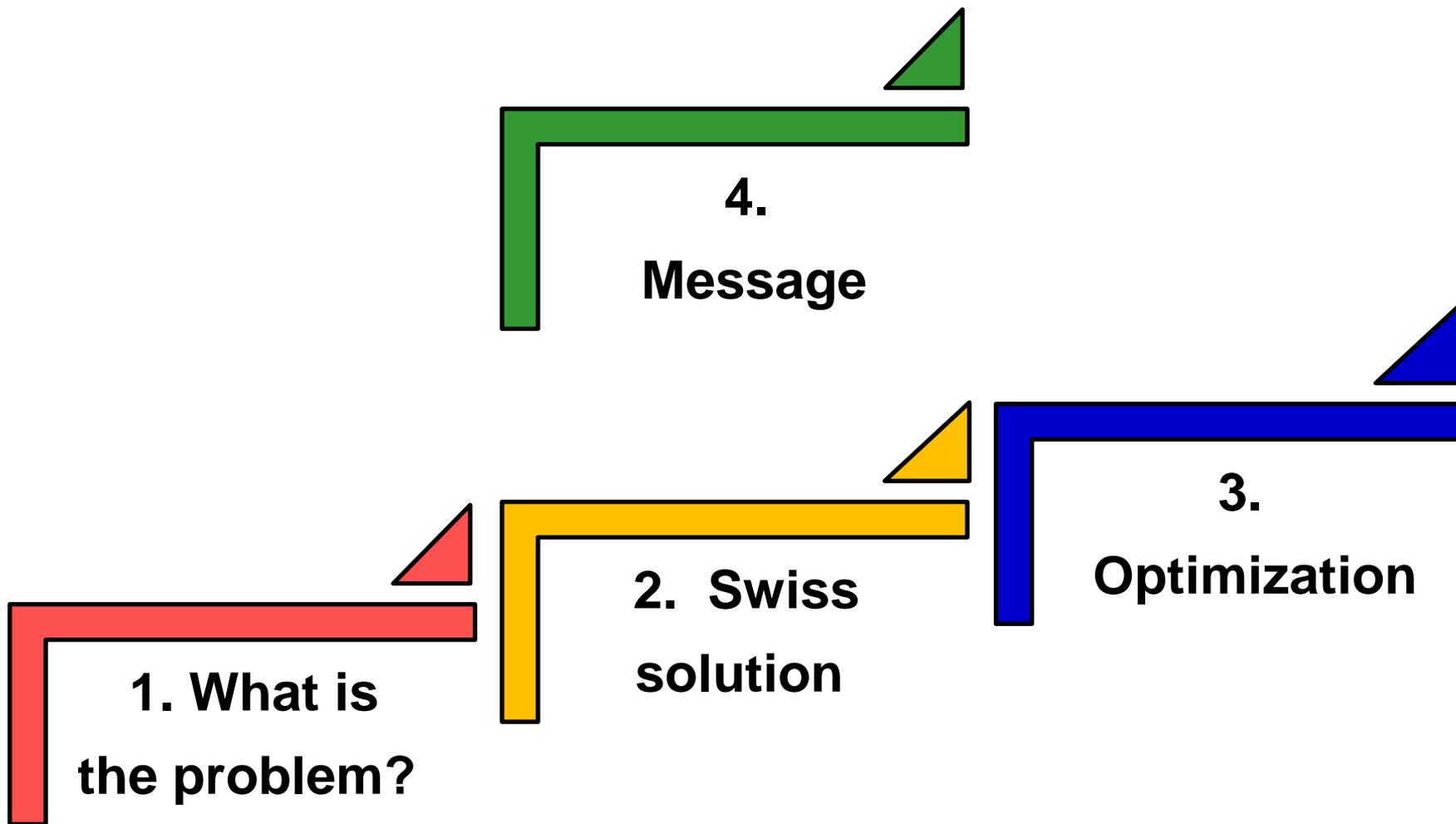


**Morat**



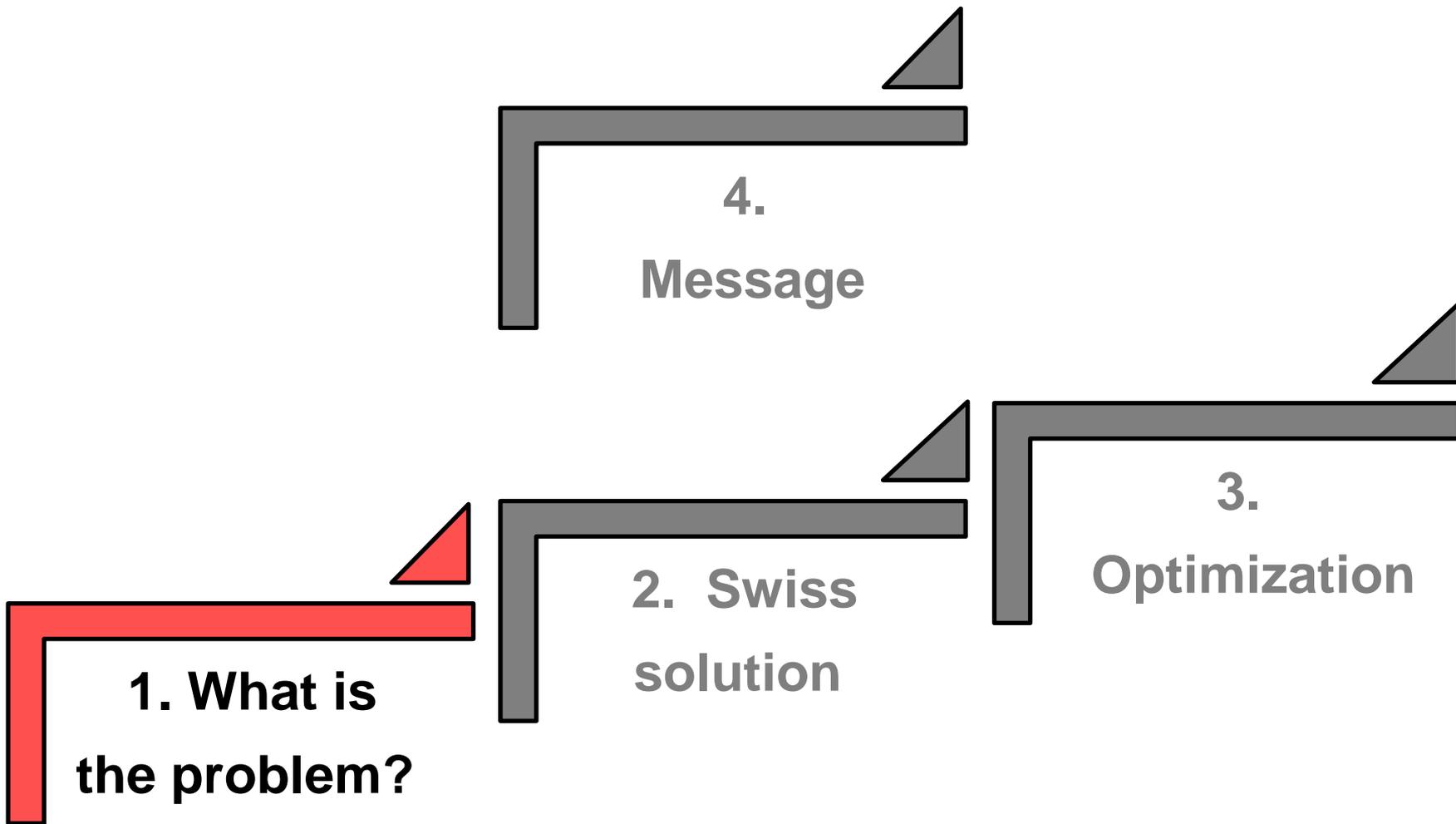


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Securing the narcotic supply chain in Switzerland





Healthcare Conference, Geneva, 22<sup>nd</sup> of June 2010  
Securing the narcotic supply chain in Switzerland



# Securing the narcotic supply chain in Switzerland

## 1. What is the problem?

### What product?



- No good definition of "narcotics" or "psychotropic substances"
- Lists of substances like **morphine**, **cocaine**, **cannabis**, **stimulants**, **synthetic drugs** and **tranquillizers**
- Medical use (pain, cough, diarrhoea, stimulants, tranquillizers, nervous system)
- ... but not only! **misuse**

# Securing the narcotic supply chain in Switzerland

## 1. What is the problem?

**What  
serious  
negative facts?**



- **Fast dependence**
- **Mostly psychological troubles**
- **Mostly social difficulties**
- **Frequently dose increasing**
- **Combination of drugs  
(alcohol, ...)**

# Securing the narcotic supply chain in Switzerland

## 1. What is the problem?



**Many people concerned!**

# Securing the narcotic supply chain in Switzerland

## 1. What is the problem?



**UN / INCB**



- 1. Single Convention on Narcotic Drugs, 1961**
- 2. Convention on Psychotropic Substances, 1971**
- 3. Convention on Precursors, 1988**

# Securing the narcotic supply chain in Switzerland

## 1. What is the problem?



Based on  
the three Conventions,

**National Laws and Regulations**

to control the use  
of these substances:

- for medical purposes **OK**
- for misuse **KO**

# Securing the narcotic supply chain in Switzerland

## 1. What is the problem?



INTERNATIONAL NARCOTICS CONTROL BOARD

## Annual Report

Press Release No. 4

page 11

24 February 2010,

**INCB: URGENT ACTION IS NEEDED AGAINST THE GROWING  
PROBLEM OF PRESCRIPTION DRUG ABUSE**

# Securing the narcotic supply chain in Switzerland

## 1. What is the problem?

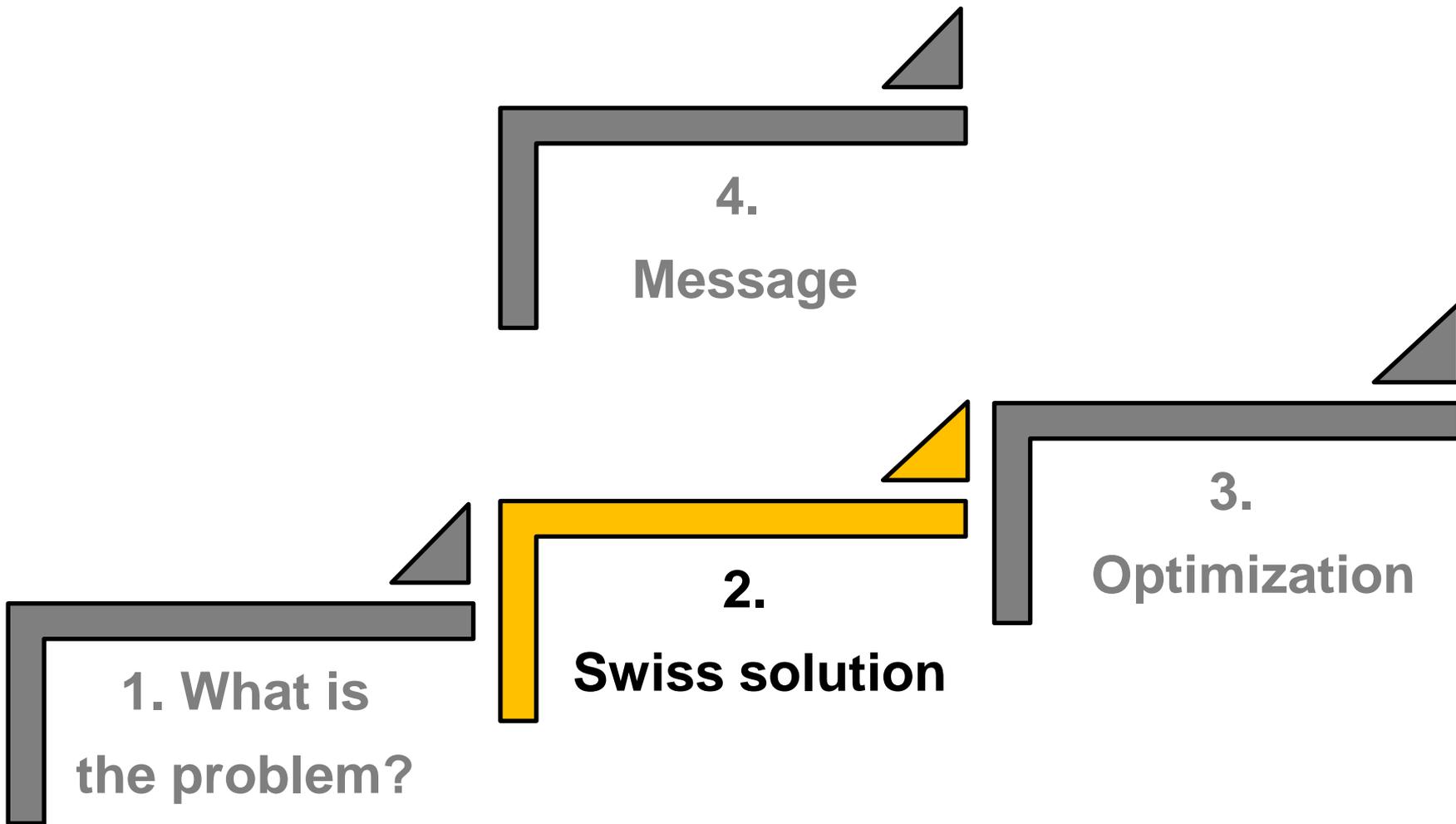


### Summary point 1

**Authorities need an efficient control system  
to fight against misuse  
of narcotic and psychotropic substances**



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Securing the narcotic supply chain in Switzerland



1. What is the problem?

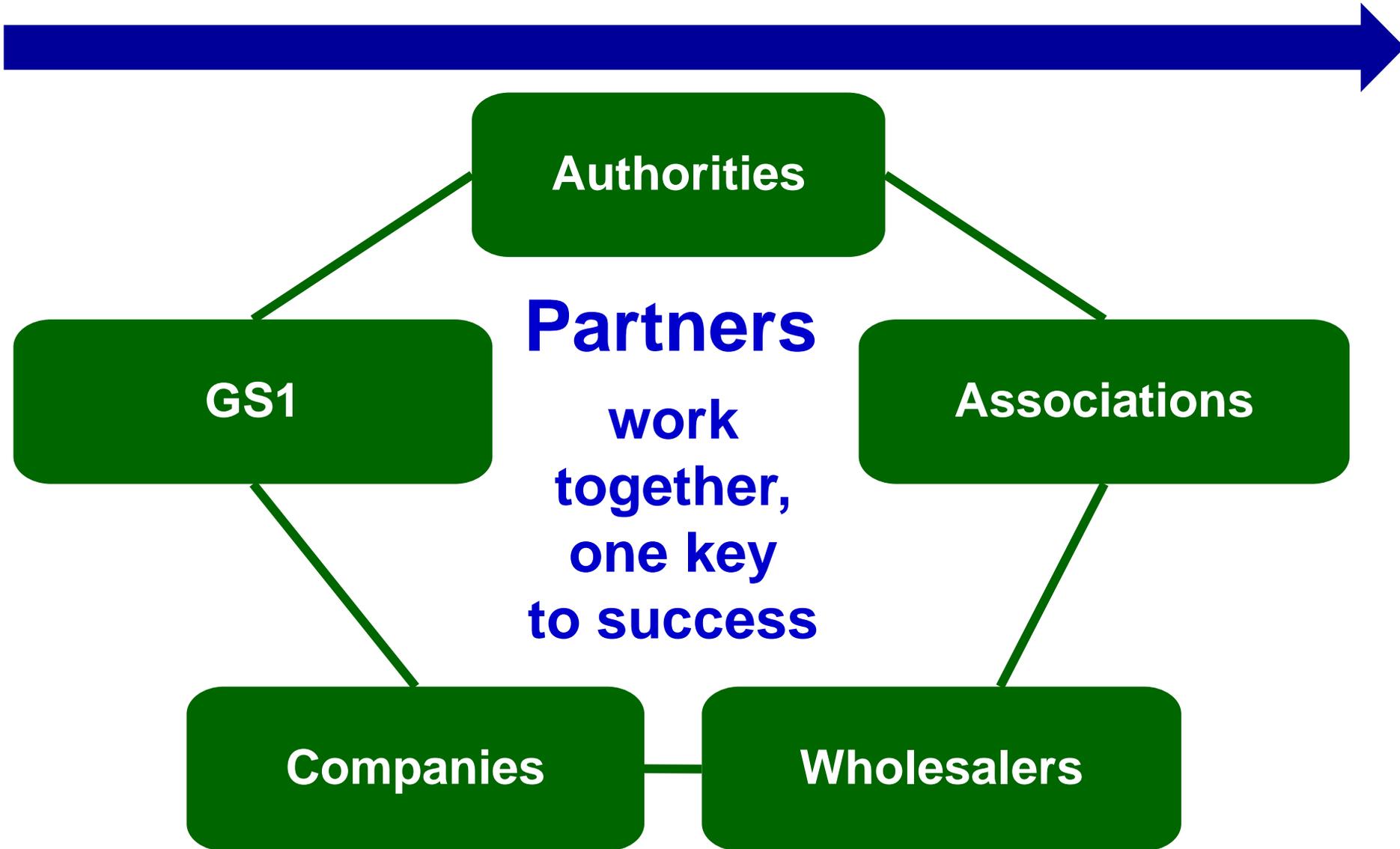
2. Swiss solution

3. Optimization

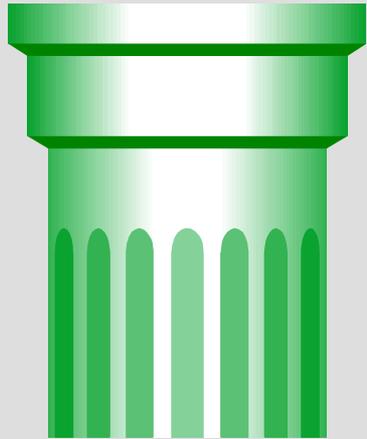
4. Message

# Securing the narcotic supply chain in Switzerland

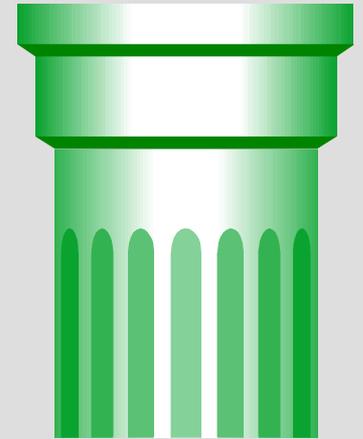
## 2. Swiss solution



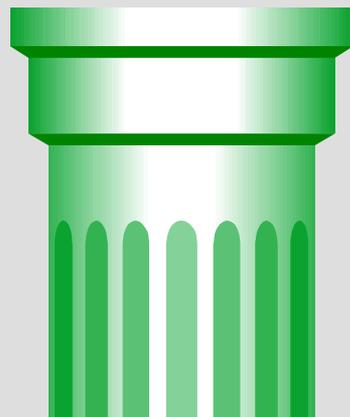
# Since 1991, the fourfold approach



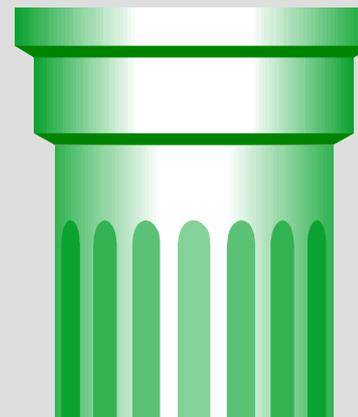
**prevention**



**therapy**



**harm  
reduction**



**control  
and  
repression**

# Securing the narcotic supply chain in Switzerland

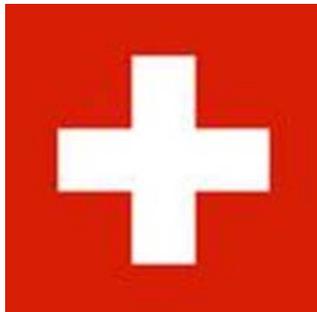
## 2. Swiss solution



**UN / INCB**



**National Authorities**



**Federal Authorities**



**Cantons Authorities**

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution



# Traceability 1



# **Traceability 1: how?**

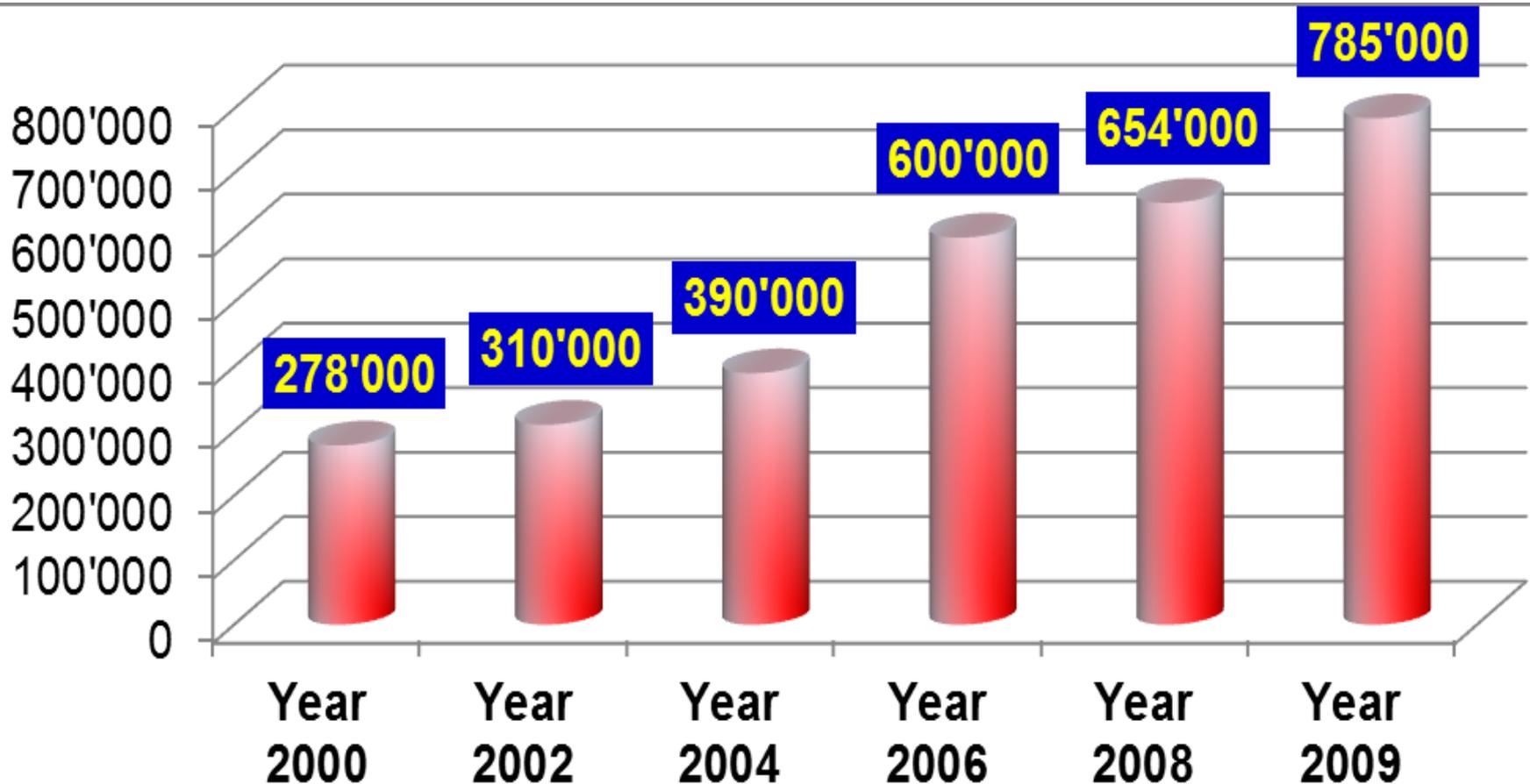
- ✓ **each transaction is subject to notification to the control authorities**
- ✓ **for each notification**
  - **supplier name**
  - **recipient name**
  - **product name**
  - **date of delivery**
  - **quantity of product delivery**

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution



### Quantities of notifications by year



# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution



# Traceability 2



# **Traceability 2**

- ✓ **each narcotic delivery to patients is documented**
  - **patient name**
  - **narcotic name**
  - **quantity**
  - **dosing**
  - **delivery date**
  
- ✓ **each delivery could be checked by control authorities**

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution

# Traceability 1

## Notifications

initially

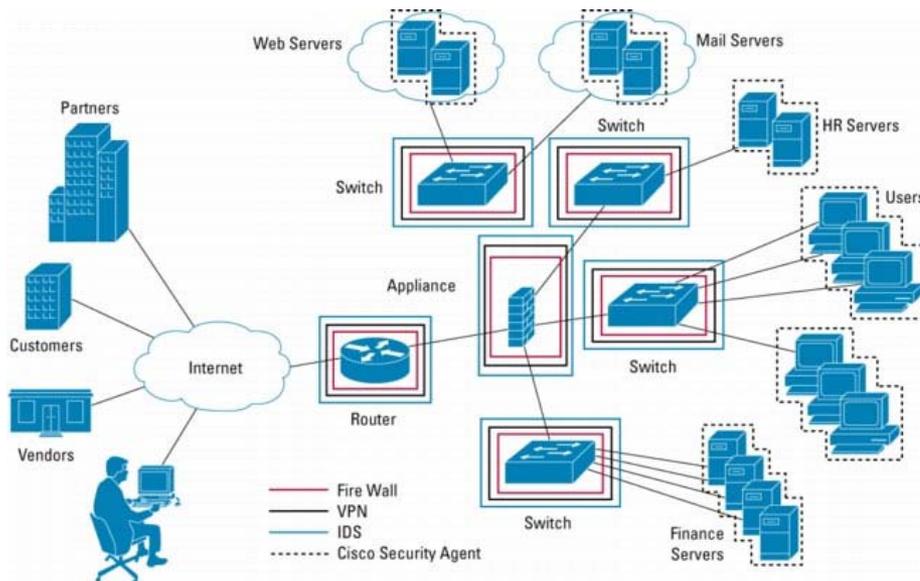
... only in paper form!

Lieferschein für Betäubungsmittel Bulletin de livraison pour stupéfiants Bollettino di fornitura per stupefacenti		Art.16 Bundesgesetz, Art. 49 VV Art.16 Loi fédérale, Art. 49 RE Art.16 Legge federale, Art. 49 RE	
<b>1 Exemplar</b> ist der Sendung beizulegen. <b>2 Exemplare</b> sind dem Bundesamt für Gesundheitswesen wie folgt zuzustellen: <b>Handelsfirmen</b> am 1. und 16. des Monats <b>Apotheker</b> am 1. des Monats	<b>1 exemplaire</b> doit être joint à l'envoi. <b>2 exemplaires</b> doivent être envoyés ainsi à l'Office fédéral de la santé publique: <b>maisons de commerce</b> le 1er et le 16 du mois <b>pharmaciens</b> le 1er du mois	<b>1 esemplare</b> deve essere aggiunto alla merce. <b>2 esemplari</b> devono essere mandati all'Ufficio federale della sanità pubblica come segue: <b>ditte commerciali</b> il 1° e il 16 del mese <b>farmacisti</b> il 1° del mese	
Lieferant: Fournisseur: Fornitore:	<b>Einkaufsverband Zürcher Apotheker</b> <b>8005 Zürich</b> <i>Amedis</i>	Kanton - Canton - Canton <b>ZH</b>	
Empfänger: Destinataire: Destinatario:	<i>Jausser - Cilag</i> <i>Baan</i>	Kanton - Canton - Canton <b>ZG</b>	
Datum Date Data	Gewicht oder Menge Poids net ou quantité Peso o quantità	Nur <b>ein</b> Betäubungsmittel bzw. <b>eine</b> Dosierung aufführen Ne noter qu' <b>un seul</b> stupéfiant resp. <b>un seul</b> dosage Notare soltanto <b>uno</b> stupefacente resp. <b>un</b> dosaggio	Dosierung Dosage Dosaggio
<i>15.10.99</i>	<i>2x</i>	<i>Dunogesic</i>	<i>25mg</i>
Zutreffendes bitte anzeichnen: Pointez s.v.p. ce qui convient: Segnare p.f. ciò che conviene:	<input type="checkbox"/> Versuch/Muster Essai/Echantillon Esperimento/Campione	<input type="checkbox"/> Umtausch Echange Cambiamento	<input type="checkbox"/> Rücksendung Retour Rinvio

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution

# Traceability 1



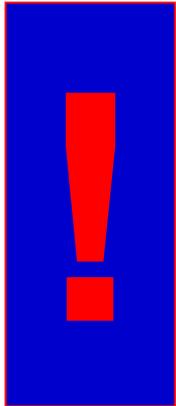
## Notifications

currently

... almost exclusively  
in electronic form

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution



### Most importantly for the notification system

1. standardized product identification
2. standardized partners identification

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution

- 
- **GTIN (Global Trade Item Number)**  
each drug and psychotropic substance is identified by a GTIN
  - **GLN (Global Location Number)**  
each partner (industry, company, wholesaler, hospital, pharmacy, doctor) has a GLN



# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution

### Ideal solution for data processing

For each notification, only numbers



2010.06.22



50 (for example)

1. GLN of supplier
2. GLN of recipient
3. delivery date
4. GTIN of narcotic
5. quantity supplied

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution



### Results

1. At first, it was difficult to introduce the GLN for doctors
2. Now the system works perfectly well

- ✓ authorities have an **effective system** to control the use of drugs
- ✓ **statistical data are available**
- ✓ **detection of abuses is possible**

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution



### **Results: detection of ...**

- ▶ **increase in prescribing of stimulants for children (methylphenidate)**
- ▶ **patients who obtain prescriptions from several doctors**
- ▶ **prescription of high doses**
- ▶ **false prescriptions**
- ▶ **...**

[Login](#)[Demo version](#)[Home](#)[Help](#)[Mail Swissmedic](#)[Impressum](#)

## Abeko Narcotics

Welcome to Abeko - a data base application for the administration of narcotics deliveries. The application is aimed at companies that are involved in the legal commerce of narcotics to notify their narcotics deliveries in a simple and efficient way.

---

### Are you a registered user already ?

Click on the `Login` link on the lefthand side.

---

### Do you not have access to the system yet?

Would you like to test the system? ([\[Deutsch\]](#) [\[Français\]](#) [\[Italiano\]](#) [\[English\]](#)) You can enter the Demo version by clicking on the menu on the lefthand side.

Would you like to have access to the application ?

Please contact Swissmedic(Mail Swissmedic).

Swissmedic, Schweizerisches Heilmittelinstitut  
Institut suisse des produits thérapeutiques  
Istituto svizzero per gli agenti terapeutici  
Swiss Agency for Therapeutic Products  
Erlachstrasse 8, CH-3000 Bern 9  
Tel: 031 324 91 88  
Fax: 031 323 88 40  
E-Mail [autorisation.narco@swissmedic.ch](mailto:autorisation.narco@swissmedic.ch)

# Securing the narcotic supply chain in Switzerland

## 2. Swiss solution



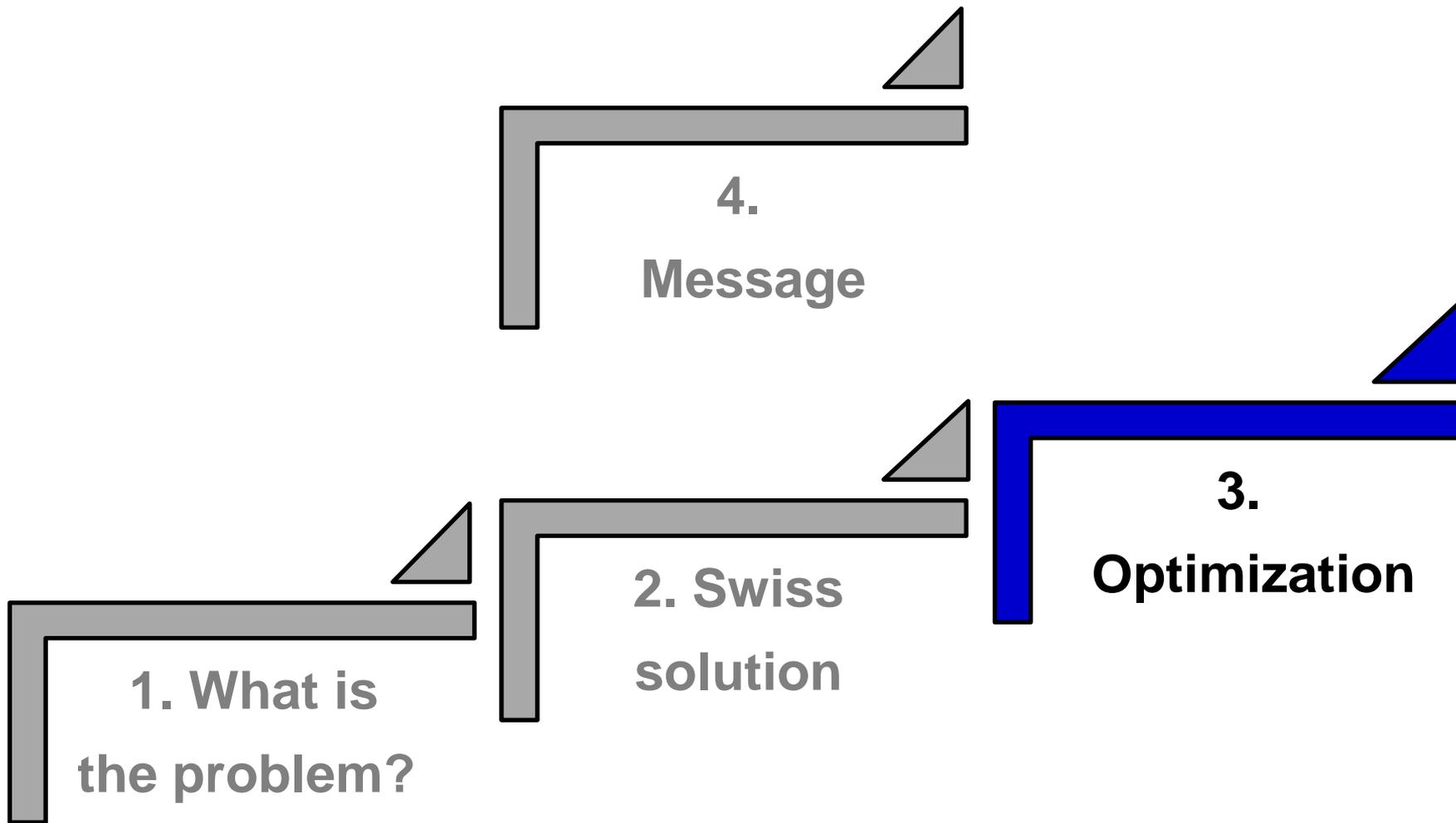
### Summary point 2

**Authorities use a fully computerized system.**  
**Traceability of the use of narcotics is possible**

**Decision to use the GTIN and GLN**  
**was most important**  
**to contribute to the successful implementation**  
**of this system**



Healthcare Conference, Geneva, 22<sup>nd</sup> of June 2010  
Securing the narcotic supply chain in Switzerland



1. What is the problem?

2. Swiss solution

3. Optimization

4. Message

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



**Notification system** so far works only for narcotics.



**1**

**It must now be extended to control the use of psychotropic substances**

**must be implemented**

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



**Publication of persons  
authorized by authorities  
to use narcotics  
for professional use**

**[www.medreg.admin.ch](http://www.medreg.admin.ch)**

**(Register of Professional  
Medical University)**

**is implemented**

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



Registre des professions de la santé - Mozilla Firefox

admin.ch https://www.medreg.admin.ch/MedReg/Summary.aspx?IdPerson=47944

Office fédéral de la santé p... × Registre des professions d... ×

Actuel | Login

### Personnes

Medreg Home > Personnes > Résultats recherche personnes > **Résumé**

### Résumé

Mme, M. Nom, Prénom	Monsieur Médioni, Laurent
Nationalité	Suisse
GLN	7601003119114
Professions (Diplômes), Pays d'octroi	- Pharmacien, 01.05.1980, Suisse

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



Registre des professions de la santé - Mozilla Firefox

admin.ch https://www.medreg.admin.ch/MedReg/Summary.aspx?IdPerson=36120

Office fédéral de la santé p... x Registre des professions d... x

Titre postgrade *1, Pays d'octroi	- Hématologie, 25.03.1994, Suisse - Médecine interne, 25.03.1994, Suisse
Formation droit privé *1, Pays d'octroi	- Pratique du laboratoire au cabinet médical, 14.03.2002
Canton d'octroi	- Berne, Médecin, Autorisation octroyée, 01.02.1994
Adresses	Waldhöheweg 6, 3013 Bern Téléphone: 031-3330301 Droit pro pharmacie *2: Non <b>Droit à l'acquisition de stupéfiants</b>

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



**Publication of companies  
authorized by authorities  
to use narcotics  
for professional use**

**is being implemented**

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



Expand the notification system  
by **inclusion of  
batch numbers** of narcotics  
and their expiry dates  
**to improve traceability**

**should be implemented**

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



**Electronic prescription**

**to reduce errors,**

**improve the management of  
medical records**

**and make counterfeit prescriptions  
difficult**



**5**

**Already possible in some hospitals,  
but almost not in medical practices**

# Securing the narcotic supply chain in Switzerland

## 3. Optimization



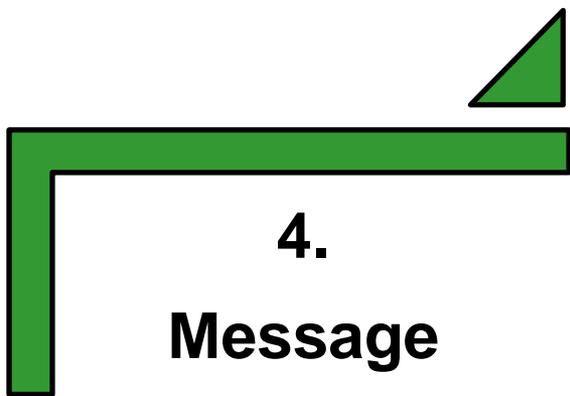
### Summary point 3

The Swiss solution has **already** been **optimized** since its introduction, but there are **still many valuable opportunities to do even better**

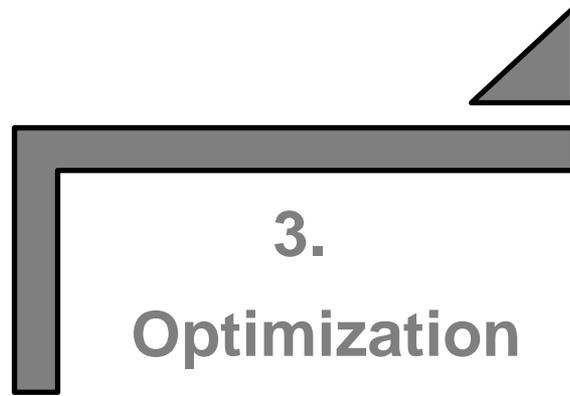
**(notification of deliveries of psychotropic substances in particular, and expansion of recorded data to ensure traceability)**



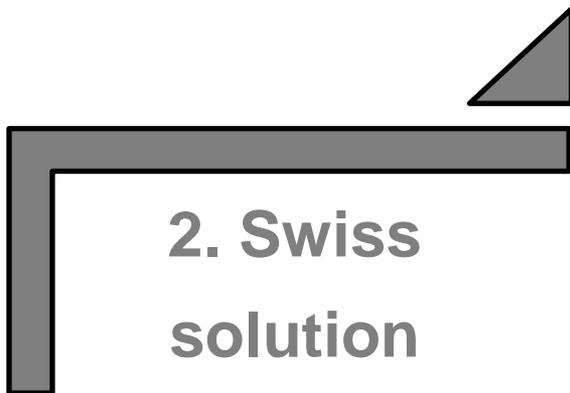
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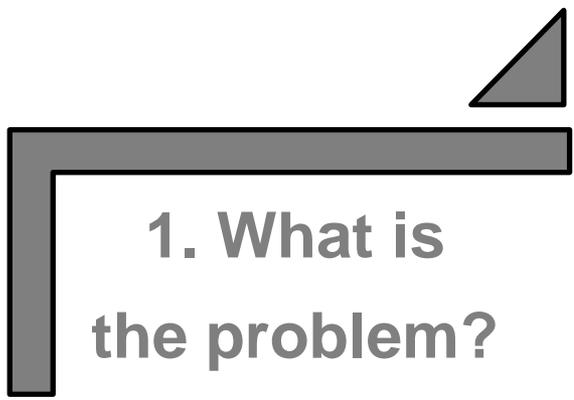
4.  
Message



3.  
Optimization



2. Swiss  
solution



1. What is  
the problem?

# Securing the narcotic supply chain in Switzerland

## 4. Message

- 
- **Securing the supply chain is an element of the strategy to fight against narcotic abuse**
  - **Swiss control system is efficient, even if it does not solve the abuse problem**

# Securing the narcotic supply chain in Switzerland

## 4. Message

- 
- **To enable traceability, identification standards are essential.**
  - **GS1 standards are not designed to allow monitoring of the use of narcotics, but their use has helped make it possible.**
  - **After years of experience, it is possible to conclude that the choice of these standards by Swiss authorities has been an excellent decision.**

# Securing the narcotic supply chain in Switzerland

## 4. Message

- 
- **This presentation aimed to show that rather than recreate the wheel, it is advantageous to use a smart existing system, such as that of GS1**

**Could you help to spread this idea?**



**Gruyères**



**Morat**





Healthcare Conference, Geneva, 22<sup>nd</sup> of June 2010  
Securing the narcotic supply chain in Switzerland

A thick, solid blue arrow pointing to the right, spanning most of the width of the slide.

Thank you  
for your attention