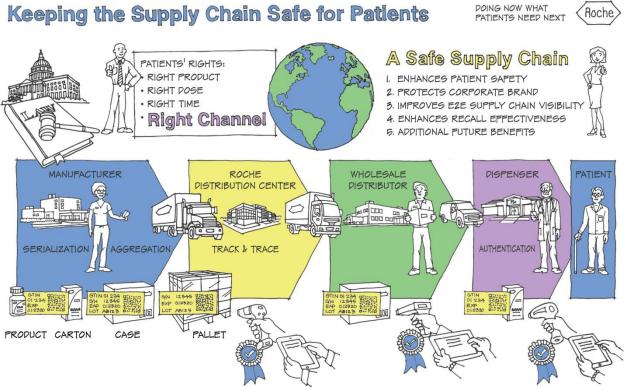
Mass Serialization and Traceability Implementation in the Pharma Industry



Mathieu Aman, Global Program Lead F. Hoffmann-La Roche Ltd, Switzerland





What drives the industry towards more "traceability"

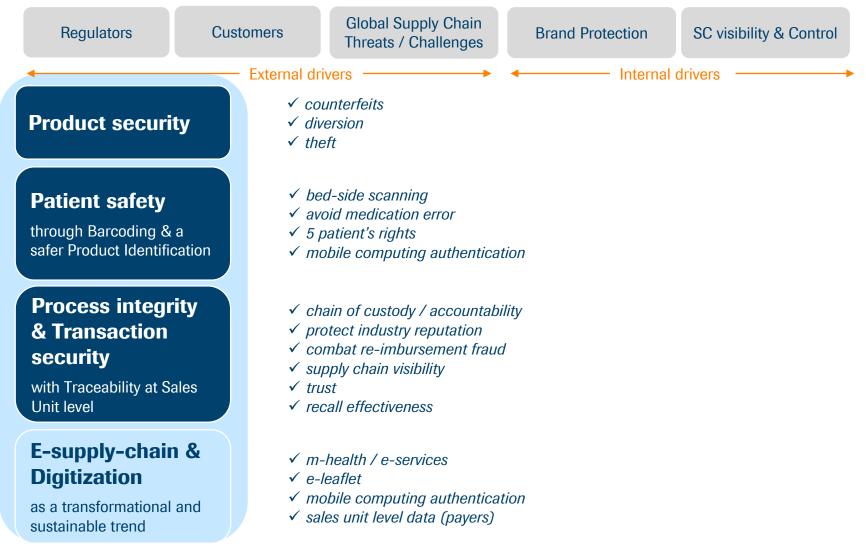
Strategic thinking & a long-term vision required

Roche's roadmap

An ongoing focus towards more control & security in todays' global Pharma Supply Chains



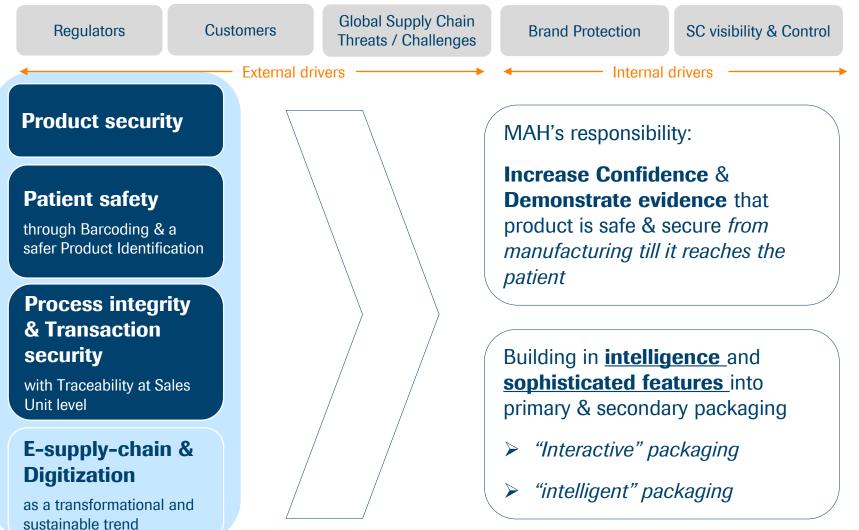
The Importance of Packaging is Increasing in Pharma



An ongoing focus towards more control & security in todays' global Pharma Supply Chains

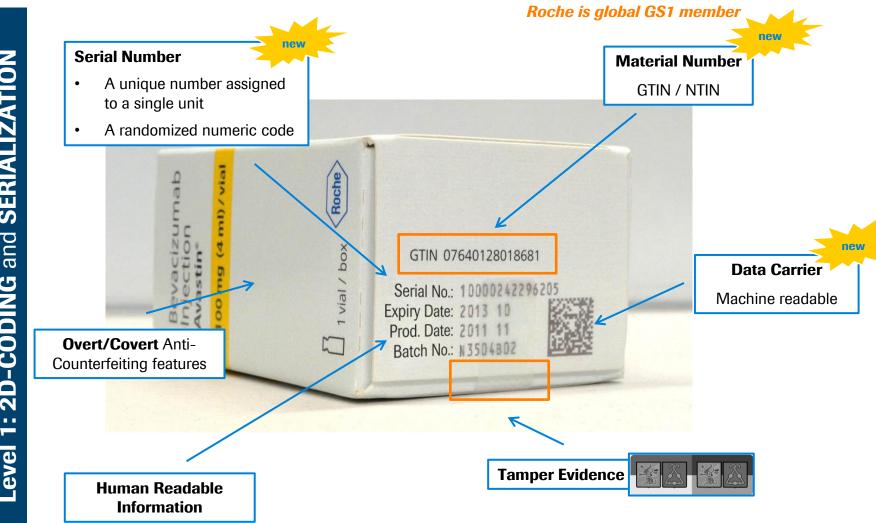


The Importance of Packaging is Increasing in Pharma



The outcome: the sales units gets unique and tamper-proof **Roche**

A unique number to identify each single tamper-proof sales pack





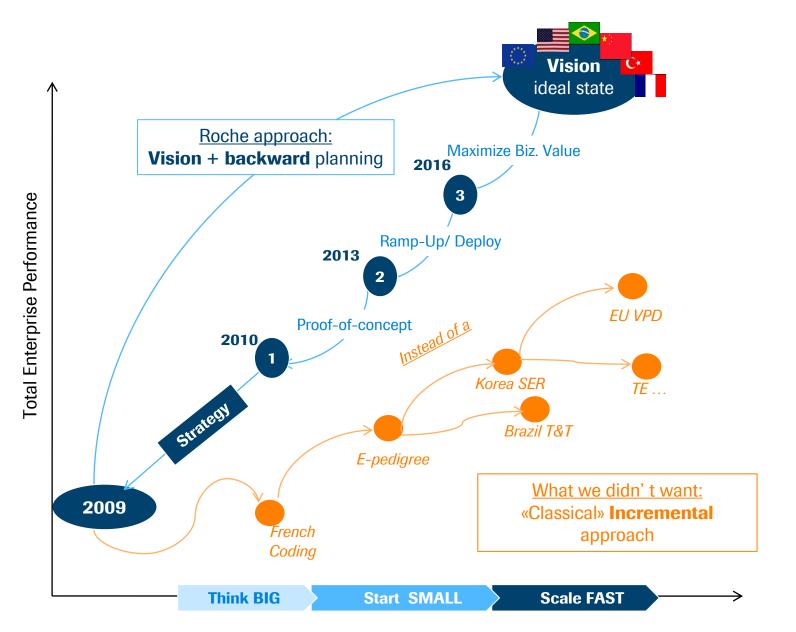
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Strategic thinking & a long-term vision



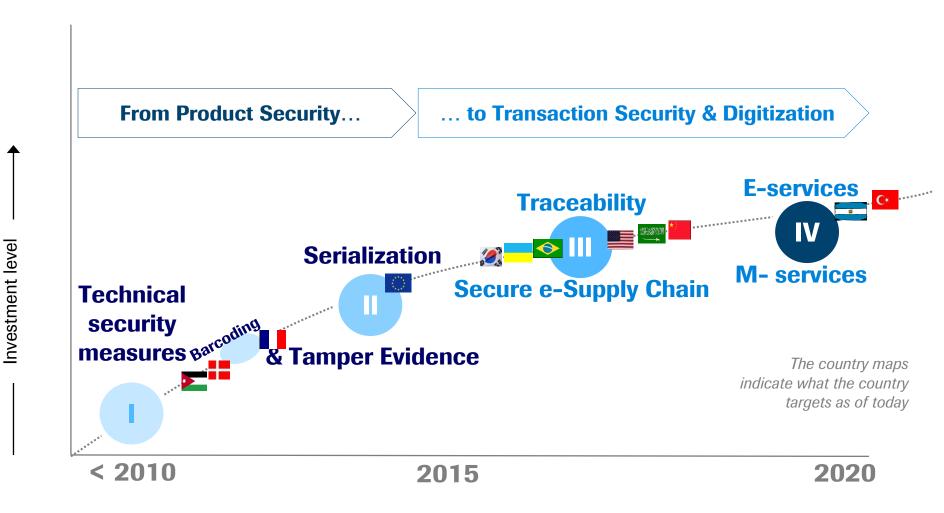


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Where do we see this journey going...



Do not focus on one specific requirement; Instead, put in perspective





Strategic thinking & a long-term vision

What our approach is from beginning

A cross functional global effort

- → ensure standardization, interoperability and integration
- Strong global drive & close cooperation with local implementation teams / SME's
- → This is not only a technical project
- Develop and implement an **adaptable/scalable** technical standard solution
 - → <u>Co-develop</u> with vendor
 - ➔ A constant mix of prototyping, conceptual design and operational implementation
- Work together with other stakeholders

→ authorities, standard bodies, associations, peers, trading partners, vendors...

Accept the challenge as an **opportunity**

Success through a collaborative approach



What drives the industry towards more traceability

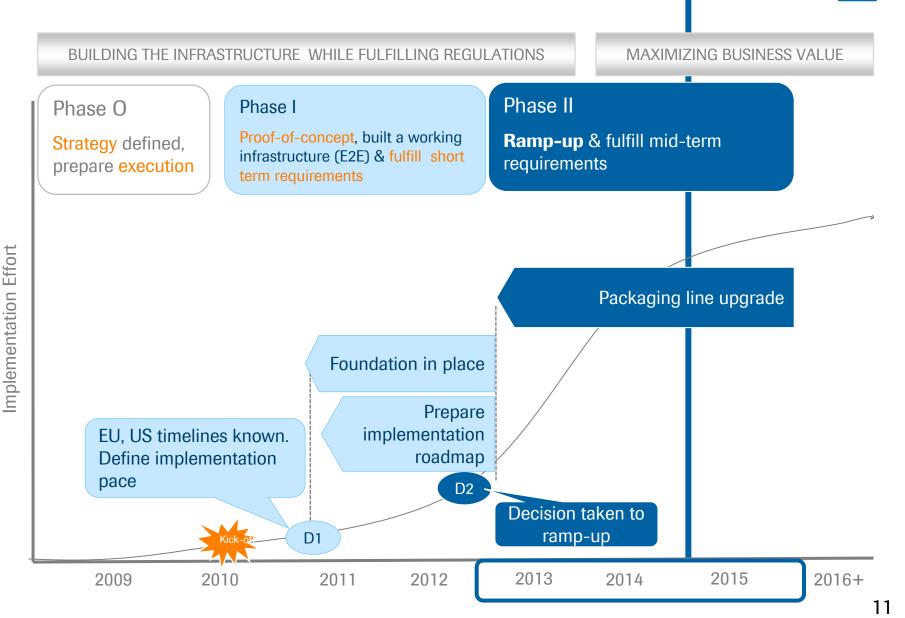
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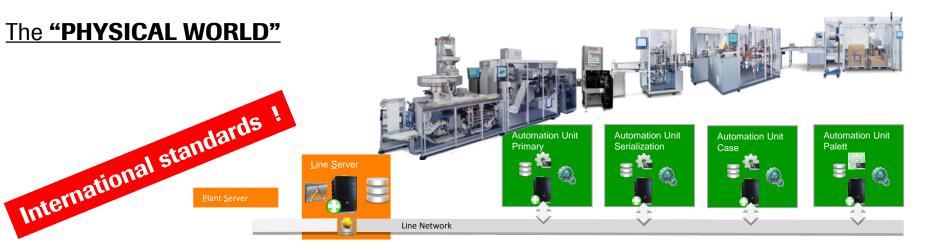
A long term effort

We are here





As a consequence, we have to upgrade all packaging lines and build a new IT-infrastructure while ensuring continuous supply



OEM Equipment

The "DATA WORLD"



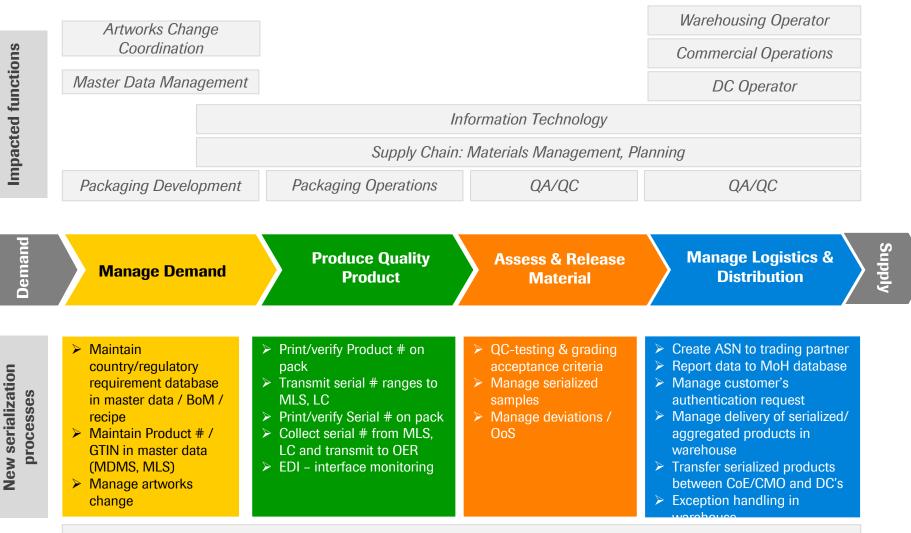
Consider line/site switches

Build bridging stocks in alignment between supply planning-site planning team

Consider workarounds e.g. offline printing

It is not only about line upgrades & IT tools !

People & Functions are impacted, requiring a strong change management



Change management

the REAL challenge of the implementation of mass serialization

Roche



What drives the industry towards more traceability

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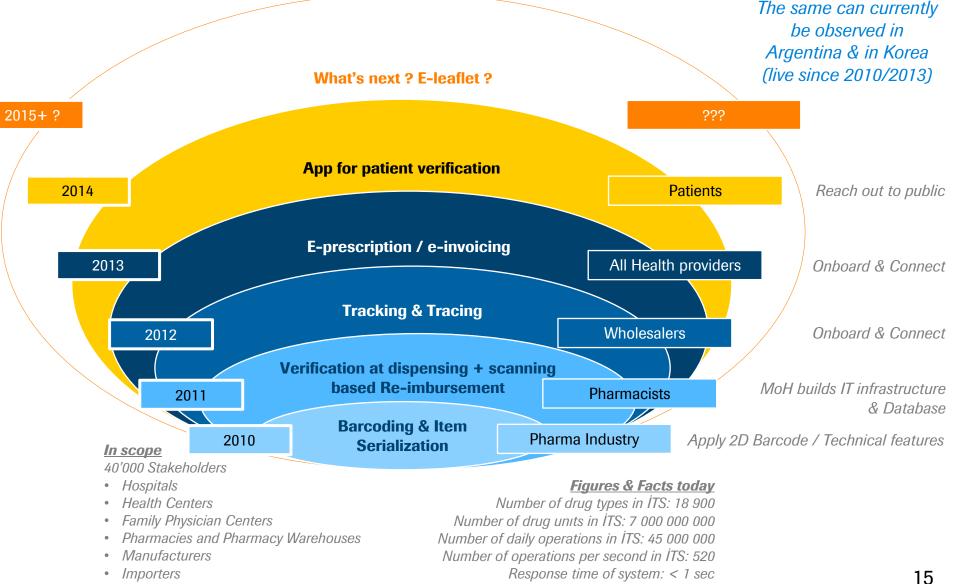
Roche's roadmap

Onboarding of HC actors by continuous scope extension



See the example of Turkey's implementation roadmap

Reimbursement Institutions



ROI in ONE YEAR!



Applying a 2D Barcode on the packs is just the beginning of the journey... and it's not only about Traceability

Content removed



Doing now what patients need next