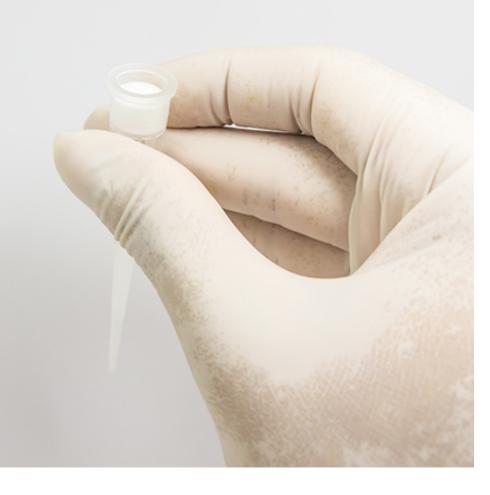
# Technologie and Entrepreneurship: Case Studies UgenTec

Steven Verhoeven, CEO UgenTec

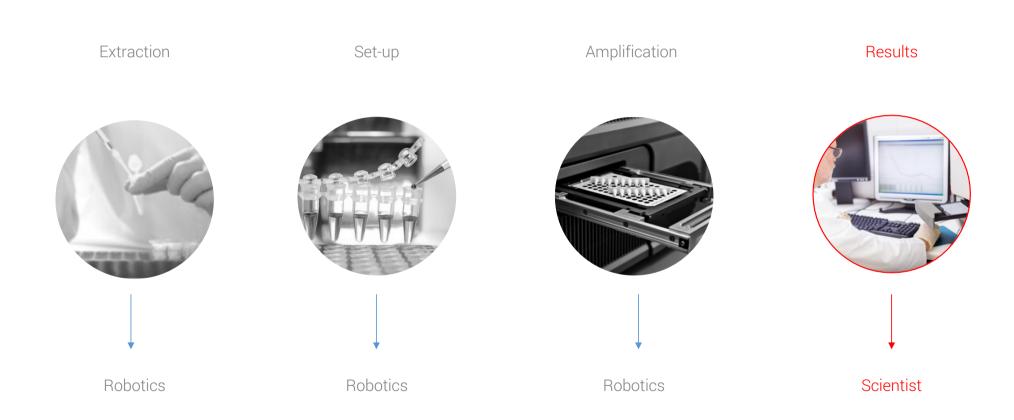


Automating and standardizing molecular diagnostics with artificial intelligence

UgenTec

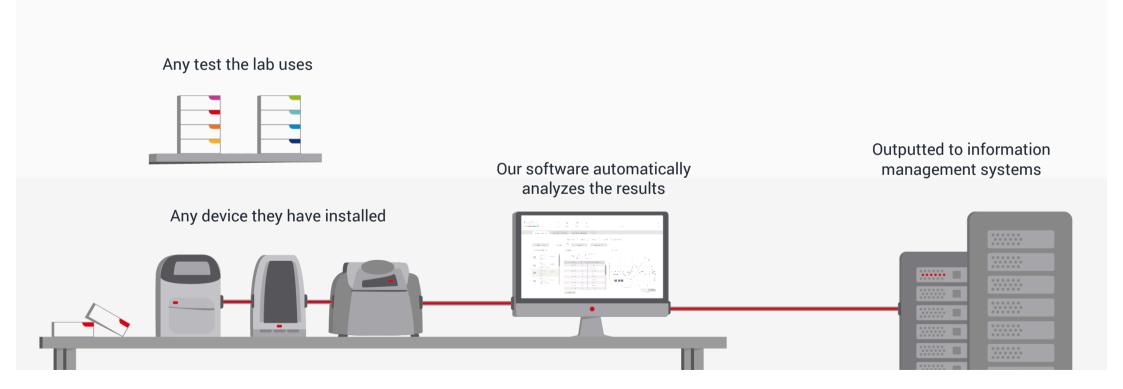


#### PCR laboratory workflow





Artificial intelligence to automate & standardize routine diagnostics

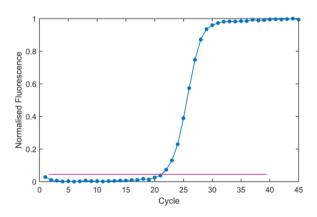


Algorithms Rules Assay plugin FastFinder



Simple algorithm

Signal = 1 → beep



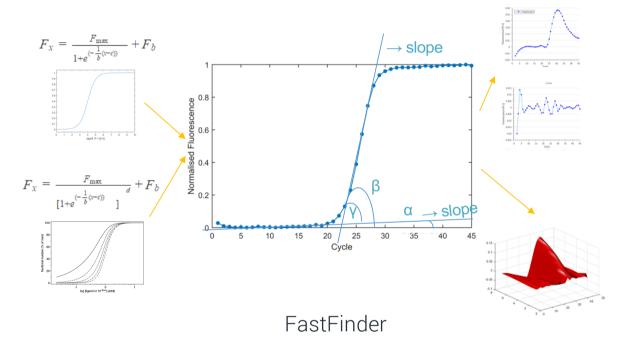
Thresholding

If fluorescence passes threshold → positive



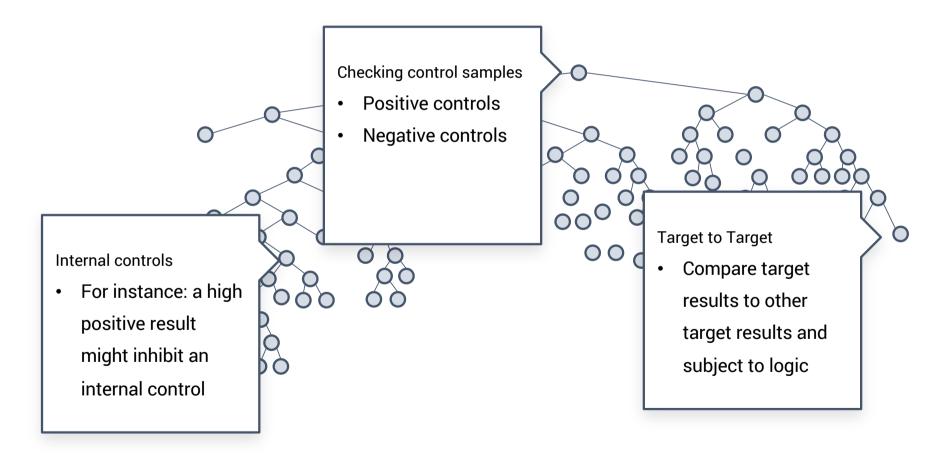
Machine learning

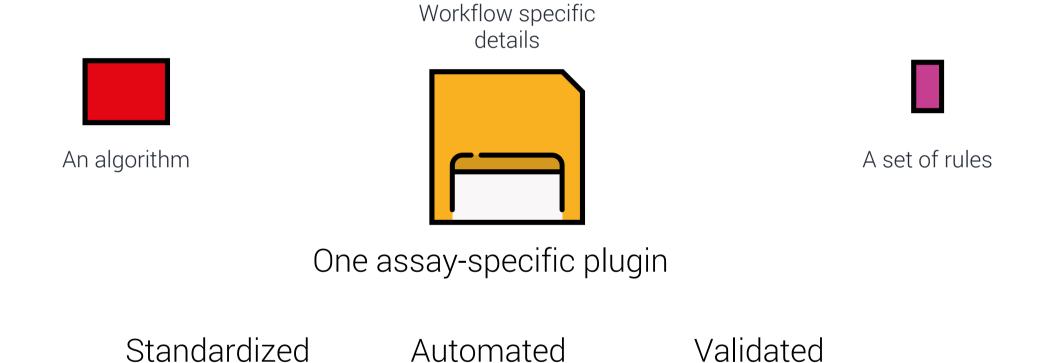
Scan multiple objects, detect traffic situations intelligently



Slope, noise, Ct calculations, measures derived from academic literature, mathematical transformations, decompositions,...

#### From signal to actionable information





Automated



Raw data



Integrated QC

Actionable result

Integrated with LIMS

#### Company Introduction 2019

UgenTec



Our mission is to simplify the way diagnostic laboratories work across the globe.

#### Why?

Sample prep Liquid handling Amplification Order management Analysis Interpretation Reporting Wrong extraction kits Manual plate config. Wrong PCR protocol Sensitive chemistry Manual data entry Samples forgotten Complex tests Convoluted custom No barcoding system Samples mixed up Queuing for efficiency Wrong PCR device Ambiguous data High throughput software Convoluted spreadsheets Inter/ intratechnician Samples lost Wrong protocol Inefficient system use Retesting Wrong samples on same plate variance

No history of data

While the entire world is increasingly connected, smart & automated





Laboratories are left with spreadsheets, macros & manual interpretation

## The platform for digital labs

Workflow Automation

Al Driven Interpretation

Intelligence



FastFlow

Integrated Workflow Lab Control Center



FastFinder

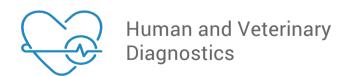
FastTyper

Results, QC follow up & LIMS reporting



FastMiner

Cross-site reporting Business intelligence Predictive Monitoring





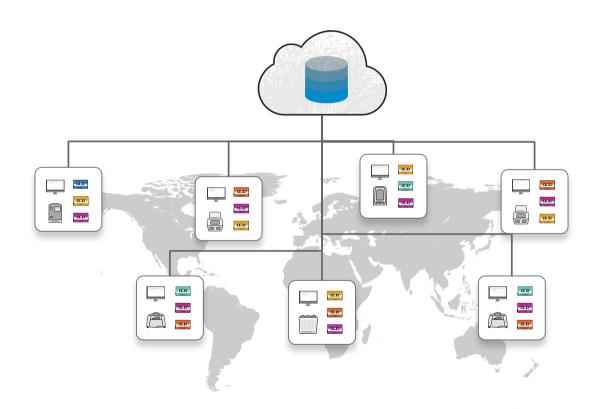
Food and Agricultural Testing, QC and Breeding



**Robotics** 

#### New business models, better intelligence & new products

- CustomerSuccess
  - Channel
- On-lineSupport
- Automated reordering



- SalesForecasting
- Production & InventoryManagement
- Epidemiology

### A trusted partner.



Help labs deal with complexity



Rollout large, compelling menu



Save valuable resources for labs



Manage global, compliant rollout

>100 laboratories in 35 countries 20 common PCR devices supported >500 assay plugins automated

#### Secure. Validated. Global.

UgenTec focuses on building secure hosted solutions, so data is always safe, private & fast.

Hosted across the globe on

Certified quality management system

CE-IVD, IVDR & FDA processes in place









#### Key messages

- From point solution to platform approach
- From start-up to proven company
- Much less focus on technology

# Tune your Pitch

## Textbook example - Zuora

- CUSTOMERS NOW EXPECT
  THE SUBSCRIPTION EXPERIENCE

  Out to the subscription of the subsc
- Name a Big, Relevant Change in the World
- Show There'll Be Winners and Losers
- Tease the Promised Land
- Introduce Features as "Magic Gifts" for Overcoming Obstacles to the Promised Land
- Present Evidence that You Can Make the Story Come True



Source: Medium.com – The Greatest Sales Deck I've Ever Seen

# Optimize your Go-to-Market Strategy

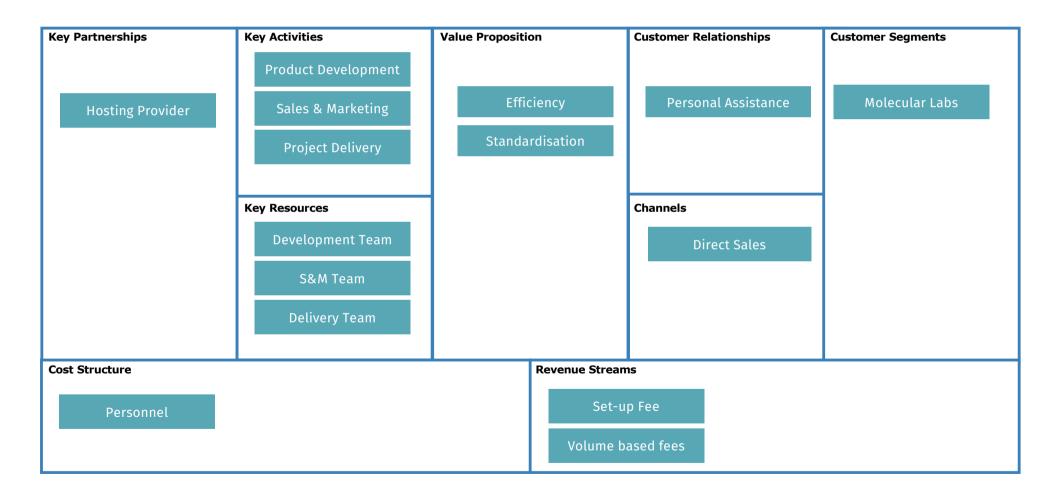
### Valorisation

Customer Lifetime Value

**Customer Acquisition Cost** 

> 3 ?

#### Business Model - Molecular Labs

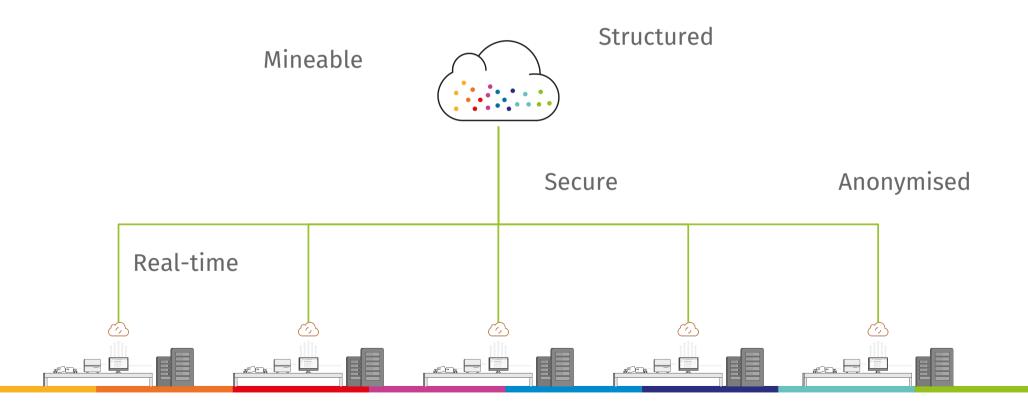


#### Leverage existing sales networks

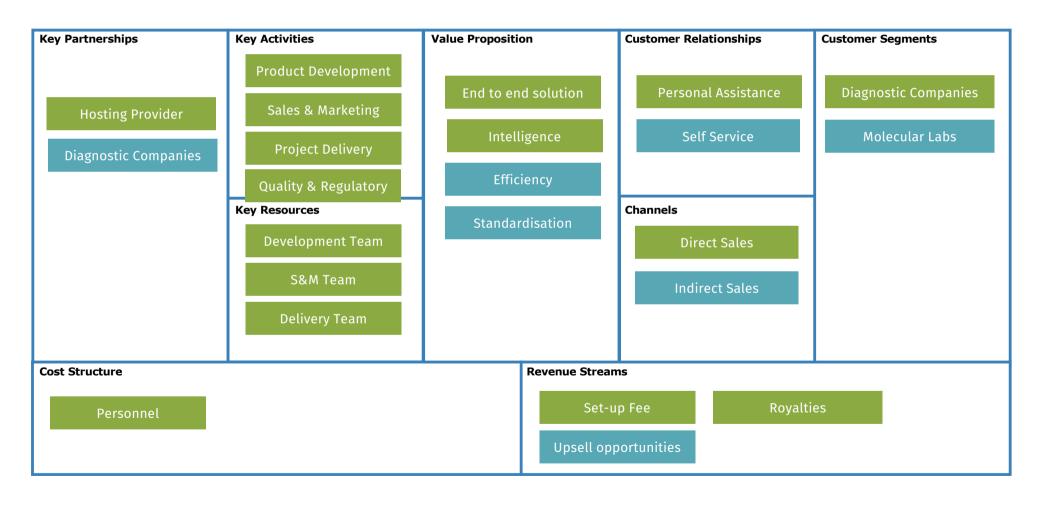
FastFinder + commercial tests = end-to-end solution



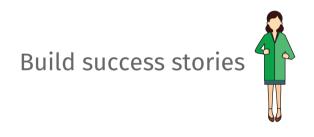
# Automation will unveil previously impossible products & ways of thinking



## Business Model - Diagnostic Companies



#### Lessons Learned





**★** Don't try to be everything at once



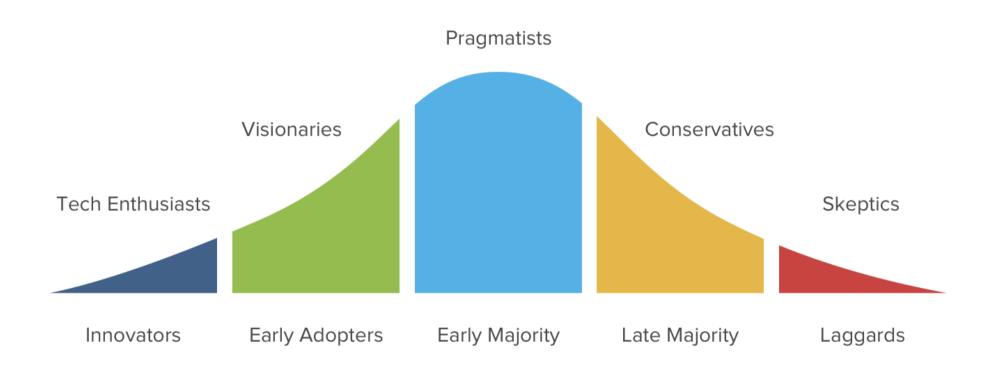
Go to market influences your entire organization

Early choices are hard to change

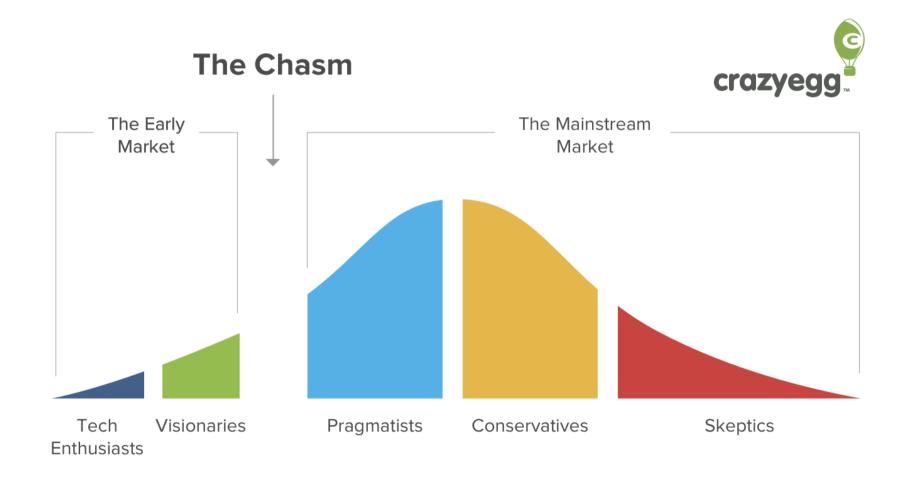


# Watch the Chasm

# Technology Adoption Lifecycle



# Technology Adoption Lifecycle -



# The solution – D-day analogy

- Select a beachhead
  - Compelling reason to buy
  - Big fish, small pond
- Assemble the invasion force
  - The whole product: think through your customer's problems in their entirety
  - Software, training, change management, etc.
  - Provided in-house or through partnerships
- Define the battle
  - Define competitive landscape
  - Focus all communication on validity of your competitive claim
- Launch the invasion
  - Direct sales force focused on consultative selling

Source: Crossing the Chasm, Geoffrey A. Moore

# Questions?