

# Metaproduct Prototype on the basis of Runningpad

Martin Daumer, Patrick Burger

Imagine a world where everything from products to people, spaces and services is connected and together operates as a living network. 'Meta Products' is the next generation of 'living' products, services and spaces referring to the potential of the Internet of Things to reach everywhere and to be embodied in everything. In the current transition period we are living in, we are building new aspirations that demand increasingly clever ways to use the potentially endless amounts of information we can track, sense, measure, share and produce via the constantly improving omnipresent technologies. So we are bringing information-fuelled products and services that will be around us as a network whenever we need them. The result of finding these increasingly clever ways to use information is what we call Meta-Products.



## META-products | Runningpad

Advanced Seminar 2013/2014

Patrick Burger

**Chair for Data Processing**

Advisor: Dr. rer. nat. Martin Daumer, Prof. Dr.-Ing. Klaus Diepold



PeerJ PrePrints



The Internet of Things

# META-PRODUCTS



Value of META-Products

# TRACK, SENSE, MEASURE & SHARE



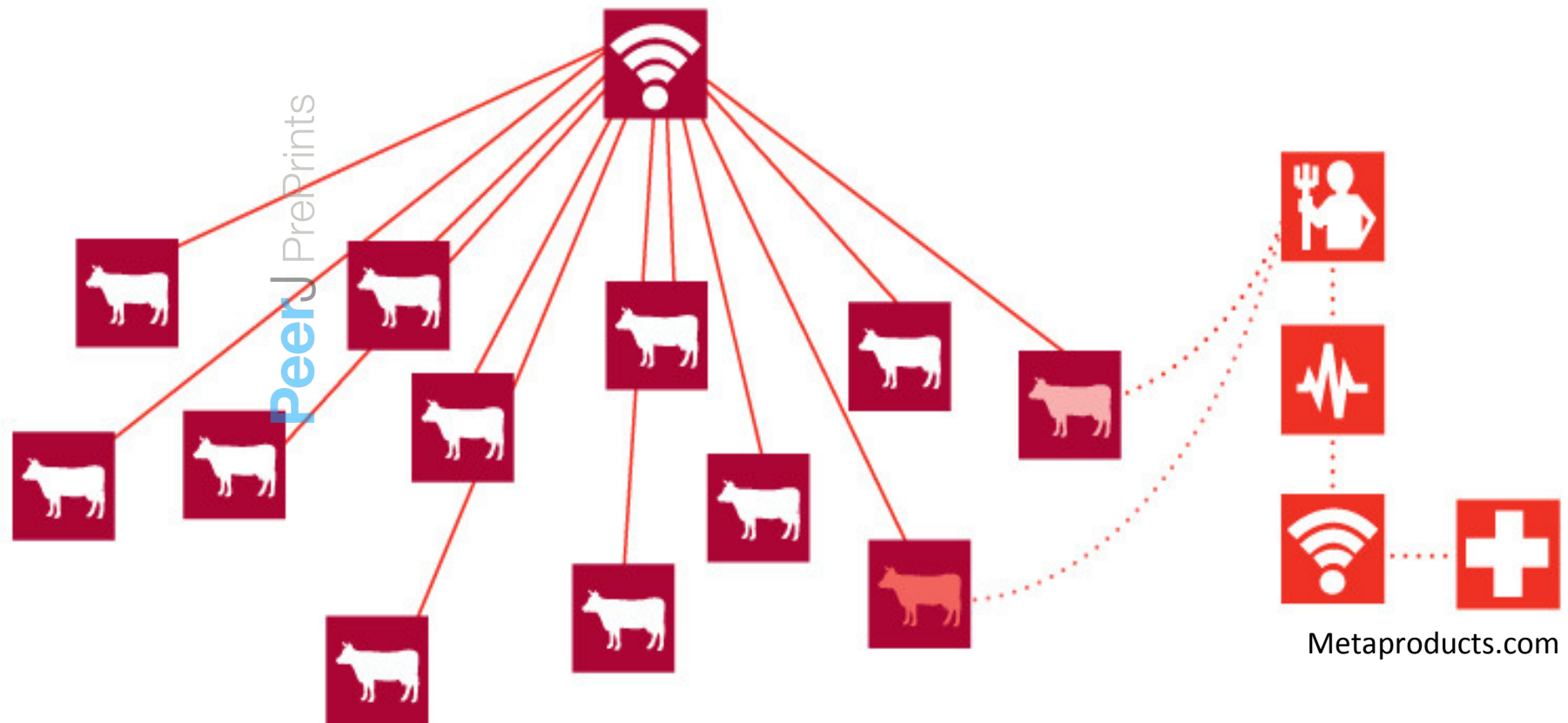
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Pioneers of Meta-Products

**NIKE**



# EVERYTHING IS CONNECTED



Everything is connected - not just smartphones and tablets. A Dutch startup, Sparked, is using wireless sensors on cattle. So that when one is sick or pregnant, it sends a message to the farmer. Each cow transmits 200Mb of data per year.



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Value of META-Products

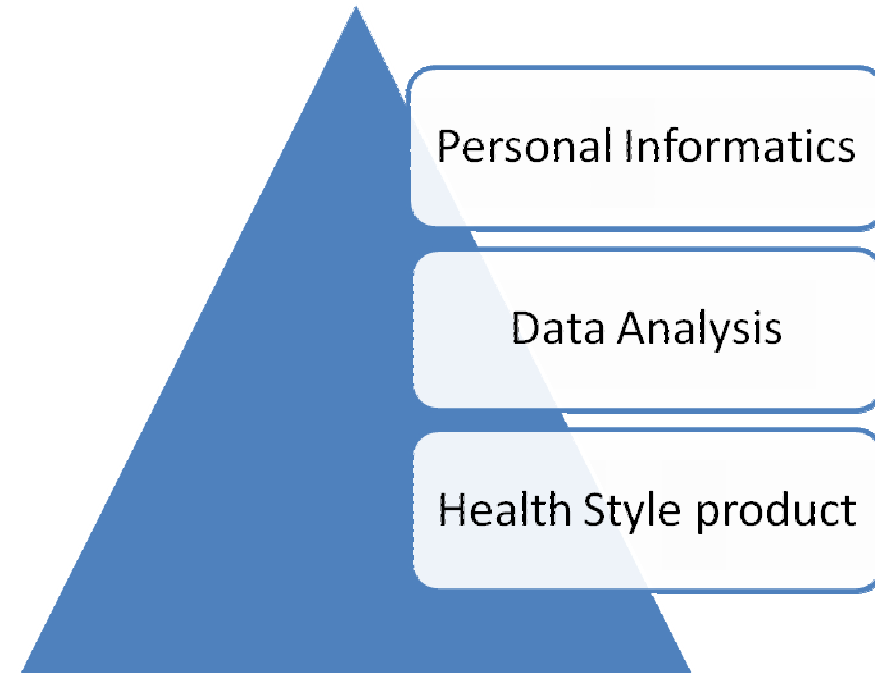
# PROTOTYPE



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Value of META-Products

**PROTOTYPE**



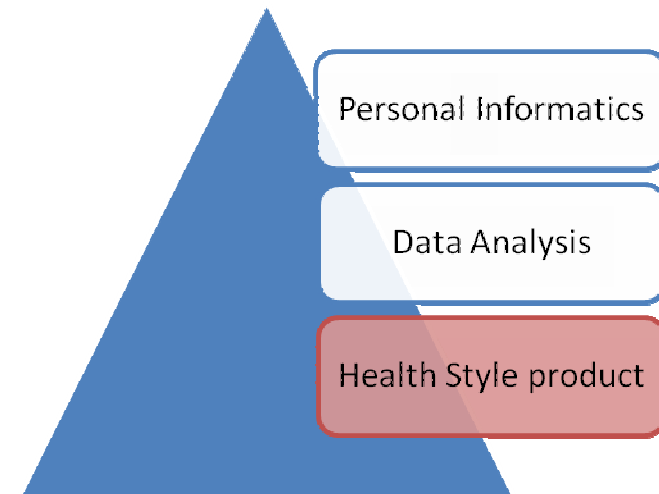




Changes your running style and healthstyle

# RUNNINGPAD

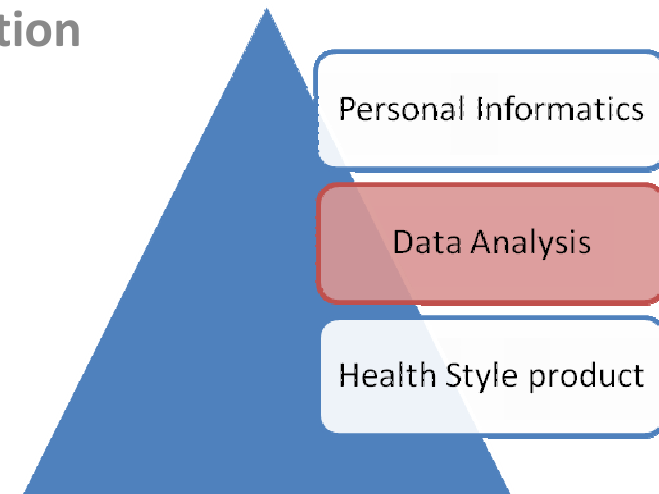
 Winner 2012  
Product

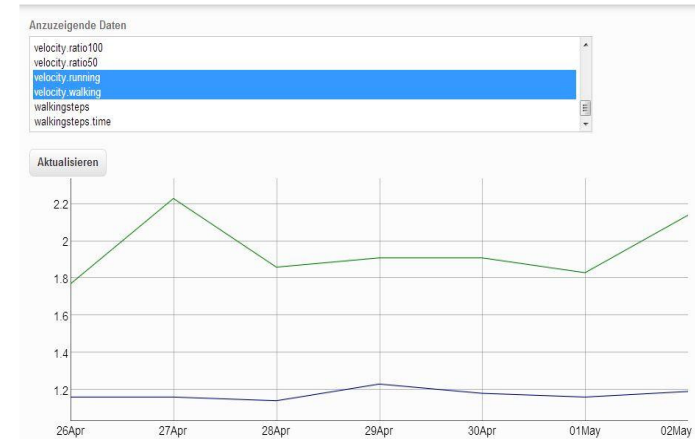
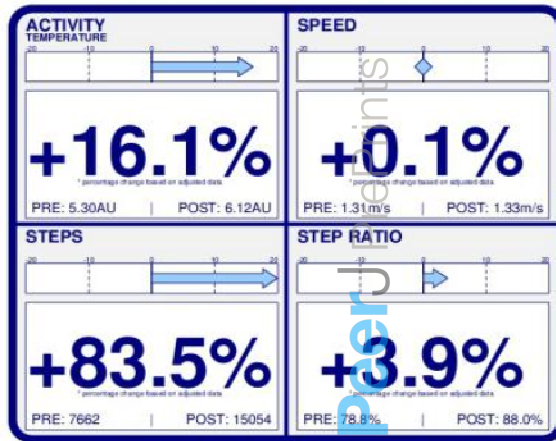




platform to capture and analyse human motion

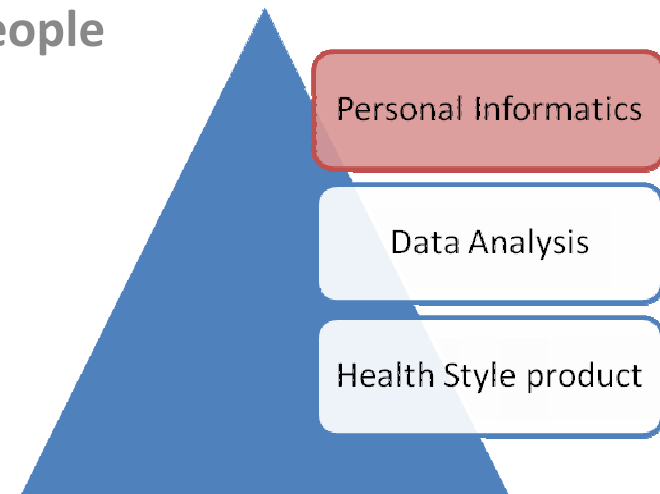
# ACTIBELT

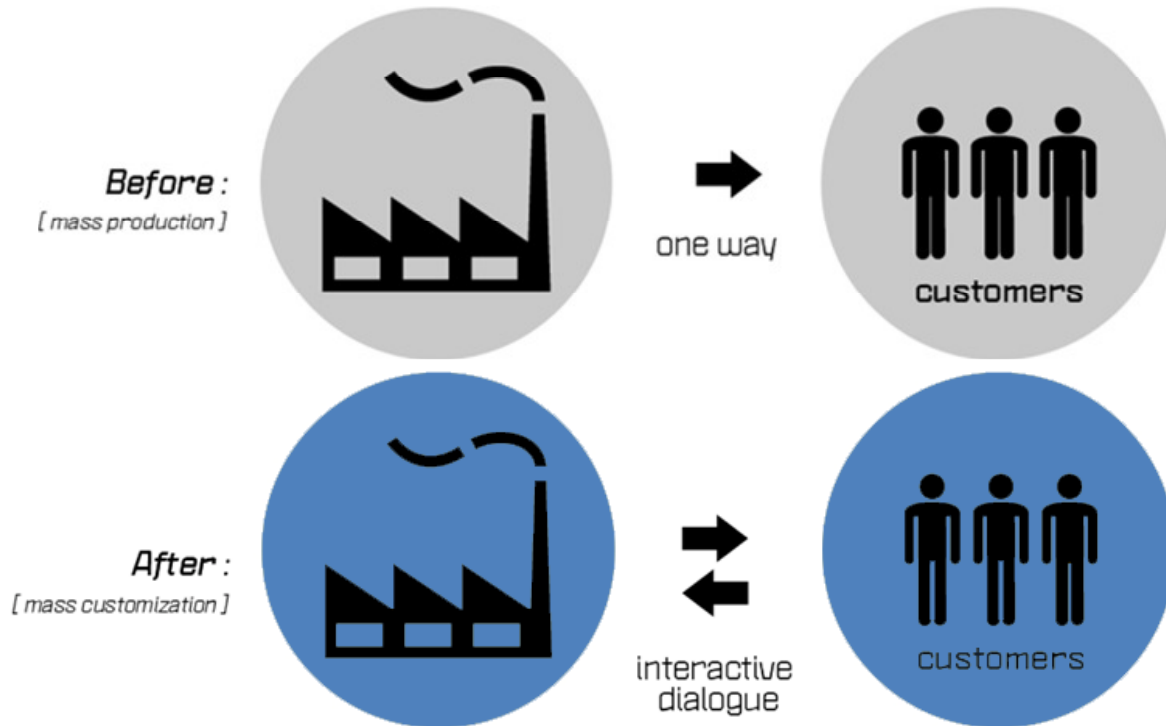




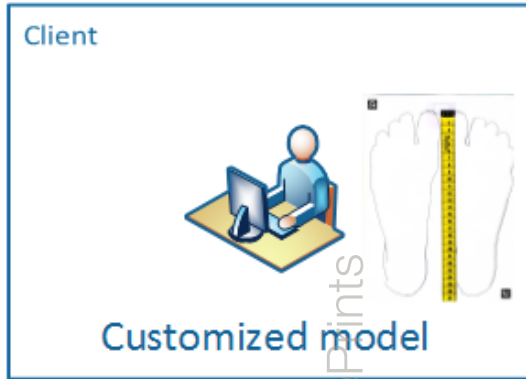
platform to analyze data and to motivate people

# YOUR724.COM

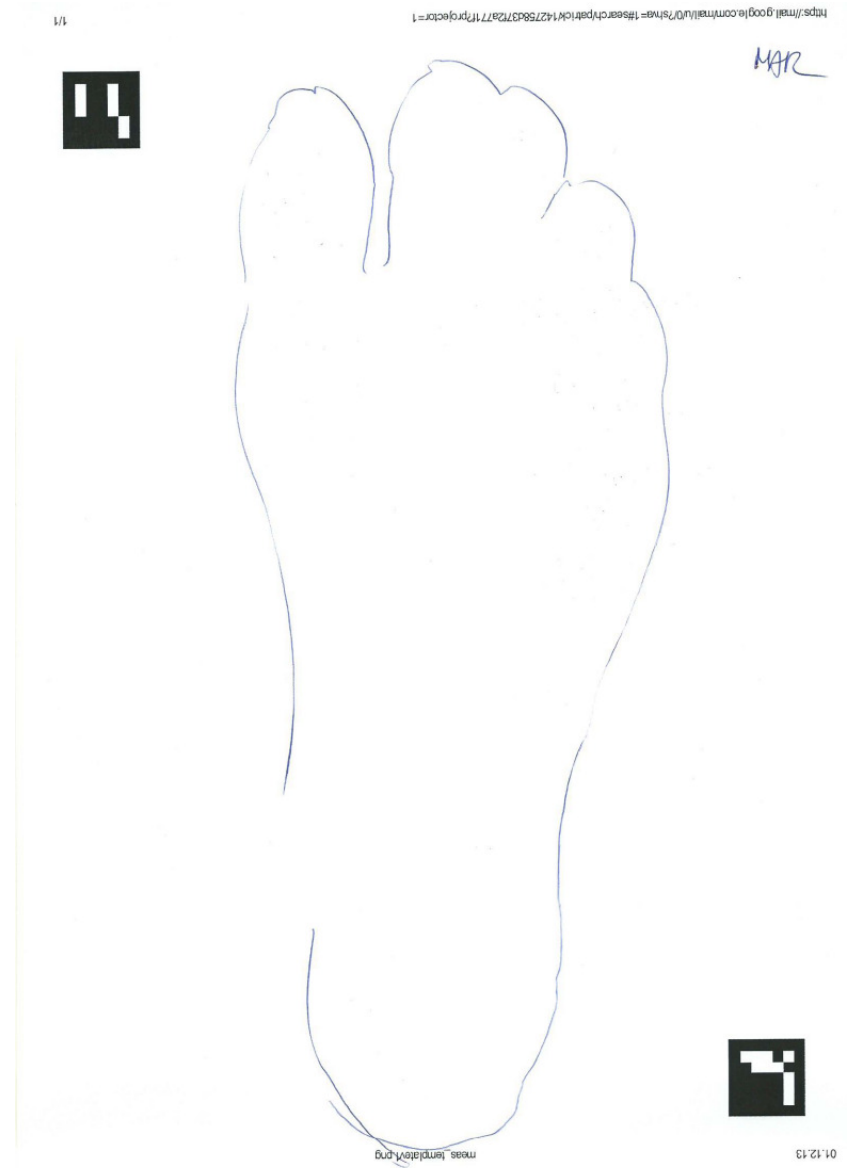


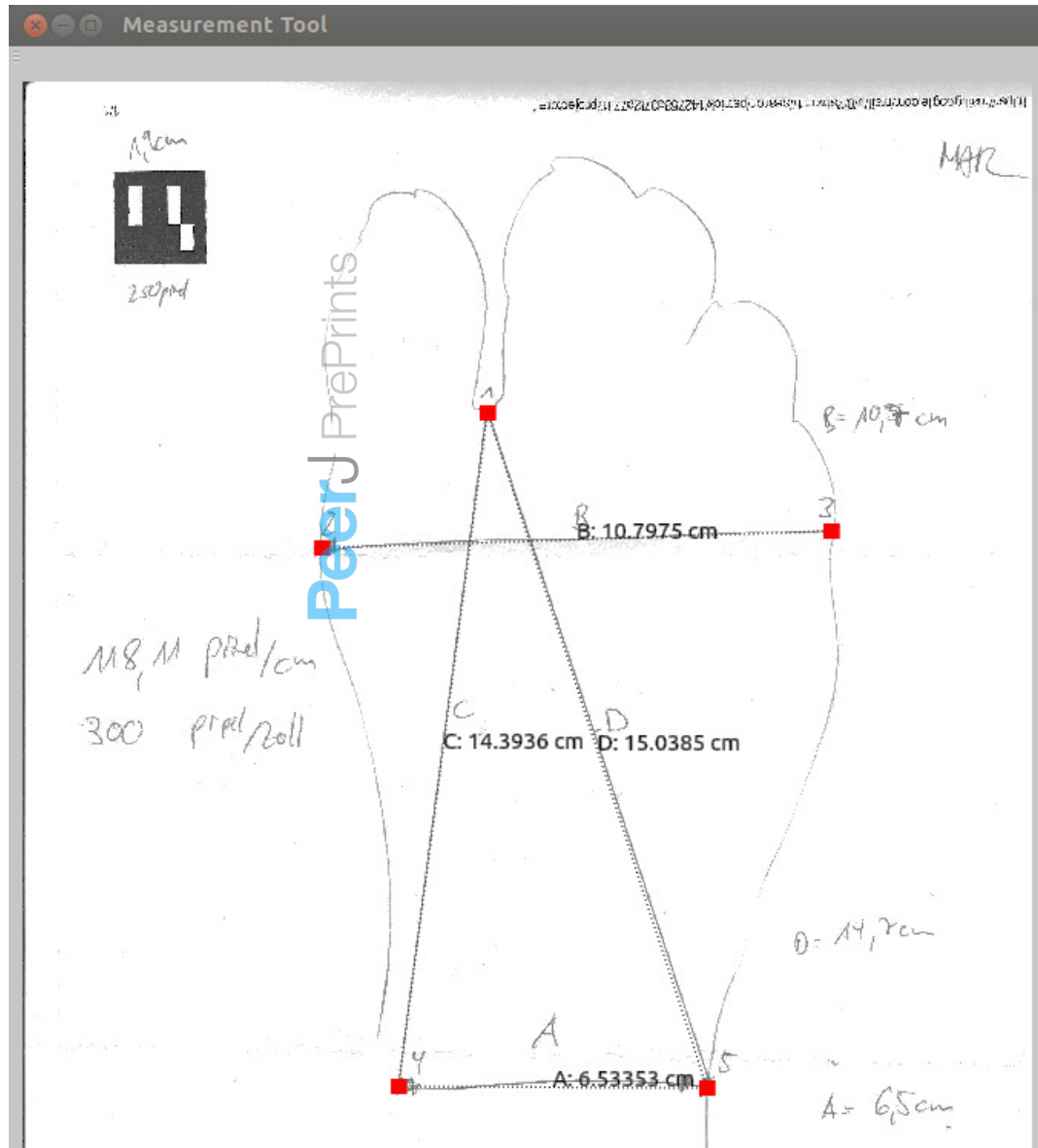


# MASS-CUSTOMIZATION



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## First Prototype

- State-of-the-art technology
  - QR-Codes
  - Computer Vision



Client



Customized model

Production



Mass-Customization




Company X

Company Y



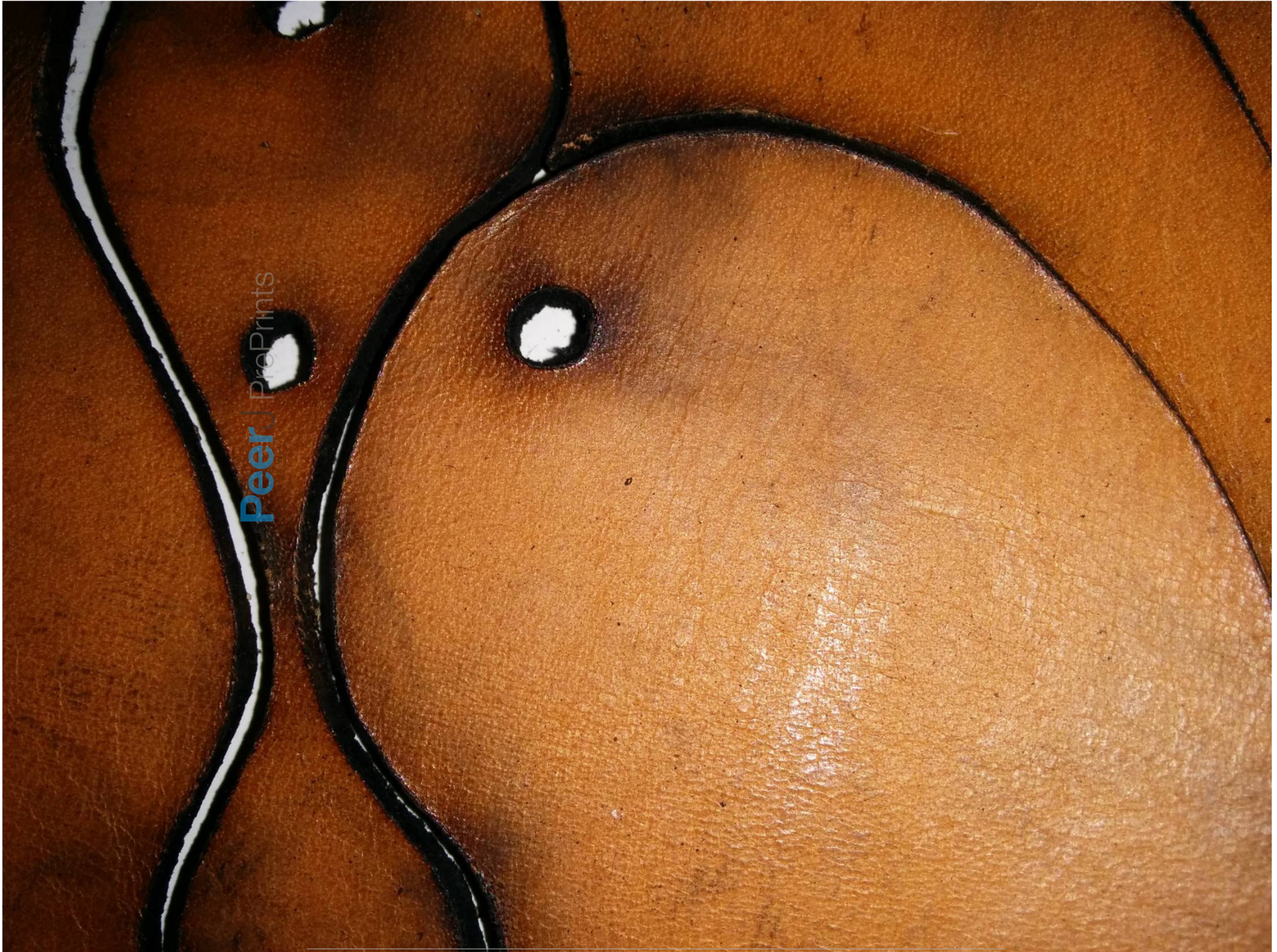
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Backoffice



Custom-made production

Individual product design



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Thank you!

**META-PRODUCTS COULD BE INTELLIGENT TOOLS  
TO MAKE GOOD DECISIONS ABOUT OURSELVES.**



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Erster Entwurf

# ERWEITERUNGEN - METAPRODUCT



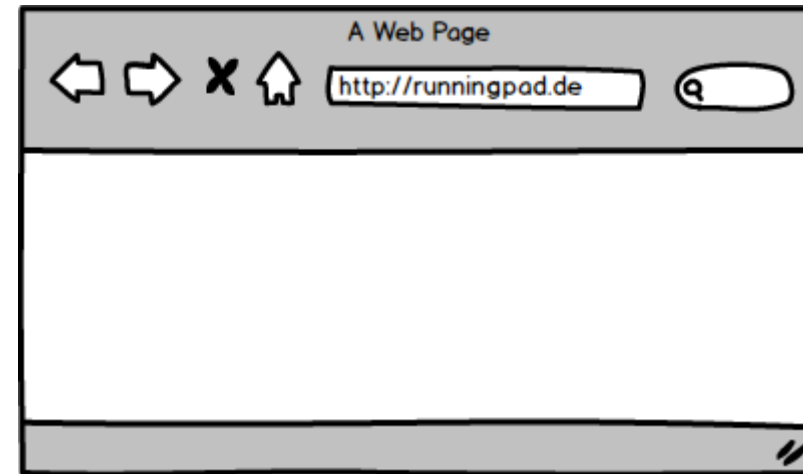
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Erster Entwurf

# ARBEITSPAKETE

## Web Interface

- Datenbank (MySQL)
  - Struktur der DB
  - Sicherheit
- Usermanagement
  - Registrierung / Login
  - Persönlicher Bereich
    - Auflistung der Uploads
    - Bestellung
    - Status der Bestellung
- Bestellprozess
  - Vermessungsvorlage als Download inkl. Anleitung
  - Erklärungsvideo

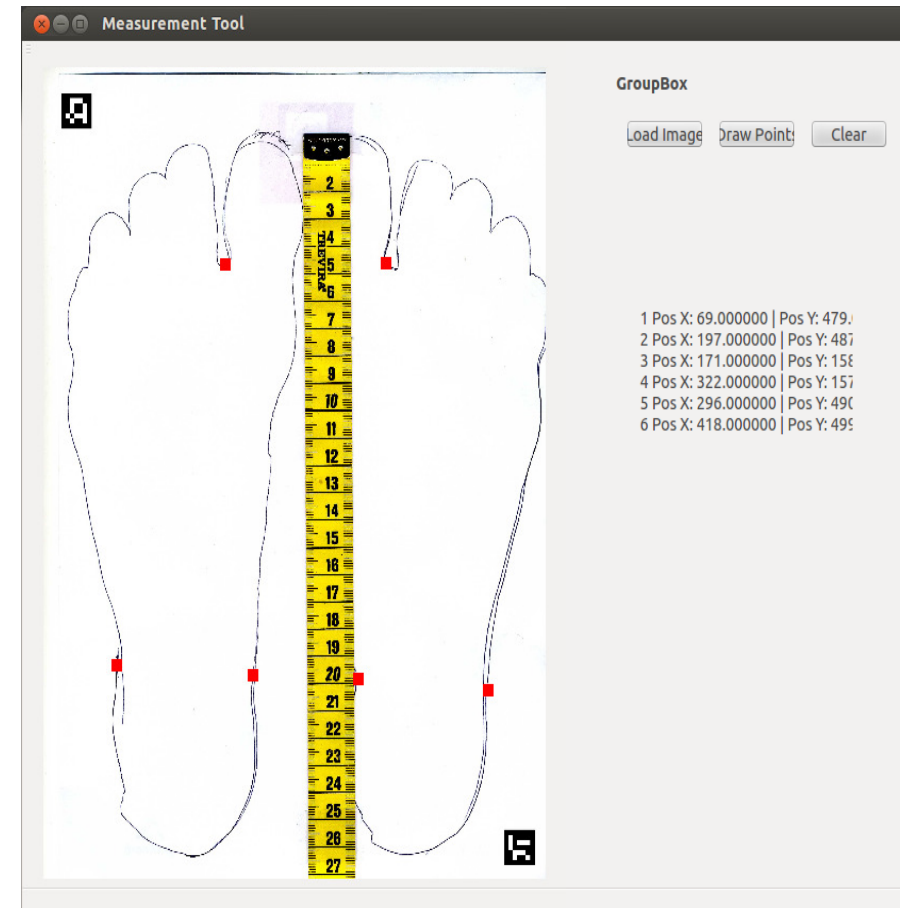


Ähnliche Projekte:

<https://www.lunasandals.com/>

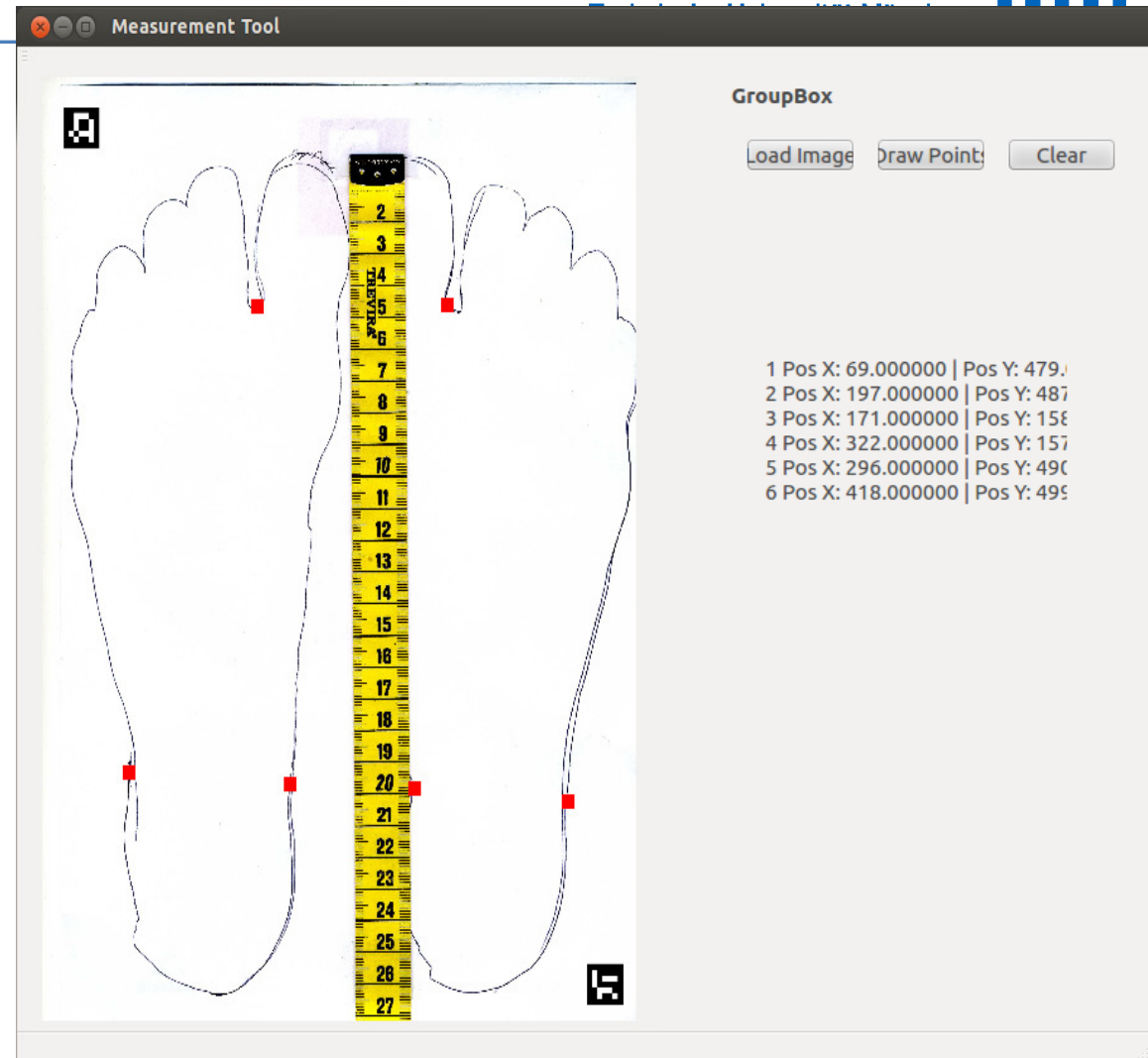
## Measurement Tool

- Datenbank / MySql
  - Bearbeitung von Bestellungen
    - Zugriff auf Useruploads
    - Vermessung / Anpassung
    - Versandschnittstelle
  - Online/Offline Management
- Bildverarbeitung
  - QR-Code
    - Automat. Vermessung
    - Positionsbestimmung
    - Vermessung / Skala
  - „Virtuelles Bearbeiten“
    - Schablonen / Vorlagen



## RunningPad Online Concept

- Web-Interface – eCommerce Lösung?
  - Registrierung / Login
  - Persönlicher Bereich
    - Auflistung der pers. Uploads
    - Status der Bestellung
  - Vermessungsvorlage als Download inkl. Anleitung
- Qt Measurement Tool
  - Synchroner Zugriff auf Web-Interface (Datenbank)
  - Direktes Bearbeiten von Bestellungen
    - Zugriff auf Useruploads
    - Vermessung / Anpassung
    - Versandschnittstelle
  - Datenbank mit Vorlagen
  - „Virtuelles“ Bearbeiten



- OpenCV (Vermessung des Fußes, Erstellung von Vorlagen)
- QT Datenbankbindung LIVE (Usermanagement, Datenaustausch, Bestellprozess)