Chronic Disease Management Solutions
Key Facts

ScienceSoft is an international IT company, an expert in design, development and delivery of healthcare IT solutions.

- 14 years in Healthcare, 30 years in the IT market
- 550+ employees
- Customers in 37 countries, including Fortune 500 companies
Chronic Diseases: Challenge

ADULTS WITH CHRONIC DISEASES

49.8% (or 117 million) have 1 or more chronic conditions

Number of chronic conditions: 0 1 2 3+

PERCENTAGE OF HEALTHCARE BUDGET SPENT ON CHRONIC DISEASES

Over the next 15 years, 80% of the U.S. population will experience one or more chronic conditions, costing society more than $42 trillion
Chronic care management is linked with the risks of:

- Interrupted care cases
- Lack of patient-caregiver communication between appointments
- Lack of patient engagement

COMPLICATIONS & EXACERBATIONS
EHR-connected **chronic disease management solution** consisting of the following components:

1. Chronic Disease Management System (CDMS)
2. Mobile application
3. Data analytics and reporting
Solution Architecture

Notifications

Medical staff

EHR

DATA ANALYTICS

CDMS

Personalized information

MOBILE APP

Patient-generated health data

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Chronic Disease Management System

**Central system** that deals with a number of chronic conditions

- Processing data received from the EHR and a patient
- Analyzing health data
- Alerting care team members or a patient

**2 implementation options:**
- Microsoft Dynamics CRM-based development
- Custom solution development
Mobile App

Key caregiver-patient communication point

- Instructions (e.g., medication intake scheme)
- Recommendations
- Reminders

Subjective (e.g., pain, fever)
Objective (e.g., blood pressure, glycose level)
Medication intake data

Data flows
Specialized mobile app for each chronic condition:

- Diabetes
- Asthma
- Cardiovascular disease
- Chronic obstructive pulmonary disease (COPD)
- Behavioral disorders

Implementation: Cross-platform application based on Xamarin
Data Analytics and Reporting

DATA ANALYSIS

Central clinical data warehouse

OR

Dedicated chronic disease analytical system

REPORTS & CHARTS

DATA
In Practice: Diabetes Management

Physician

Notifications

Personal treatment plan

Mobile app

EHR

Diabetes management system

Daily glucose, blood pressure, diet, medication intake etc.
Benefits

Systematic uninterrupted care

Ongoing patient-caregiver communication

Advanced patient engagement

Reduced risk of complications and readmissions
Our Services

1. Business analysis
2. Solution design
3. Customization
4. Deployment & integration
5. Maintenance

FULL-CYCLE DEVELOPMENT SERVICES
How to Start

Contact us

Get a workshop

Get a proof-of-concept of your chronic disease management solution