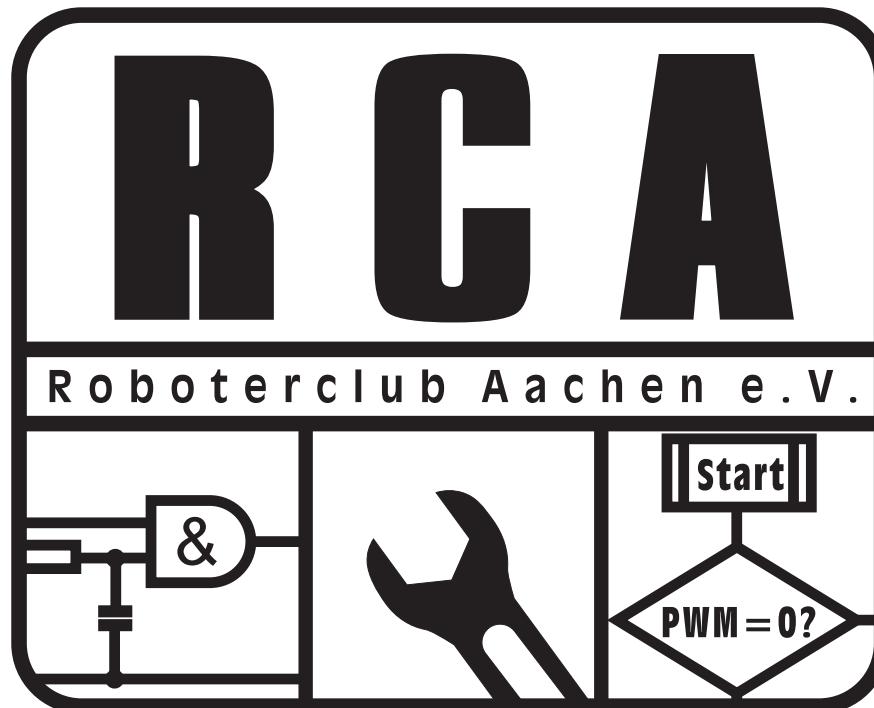




Niklas Hauser

36. dorkbot

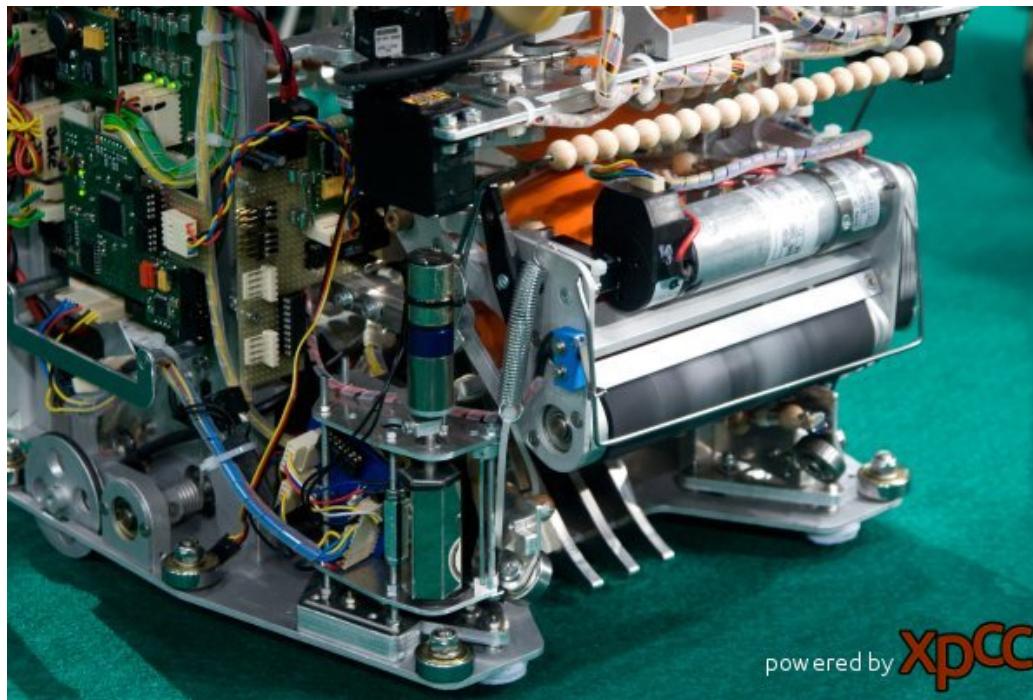
Introduction



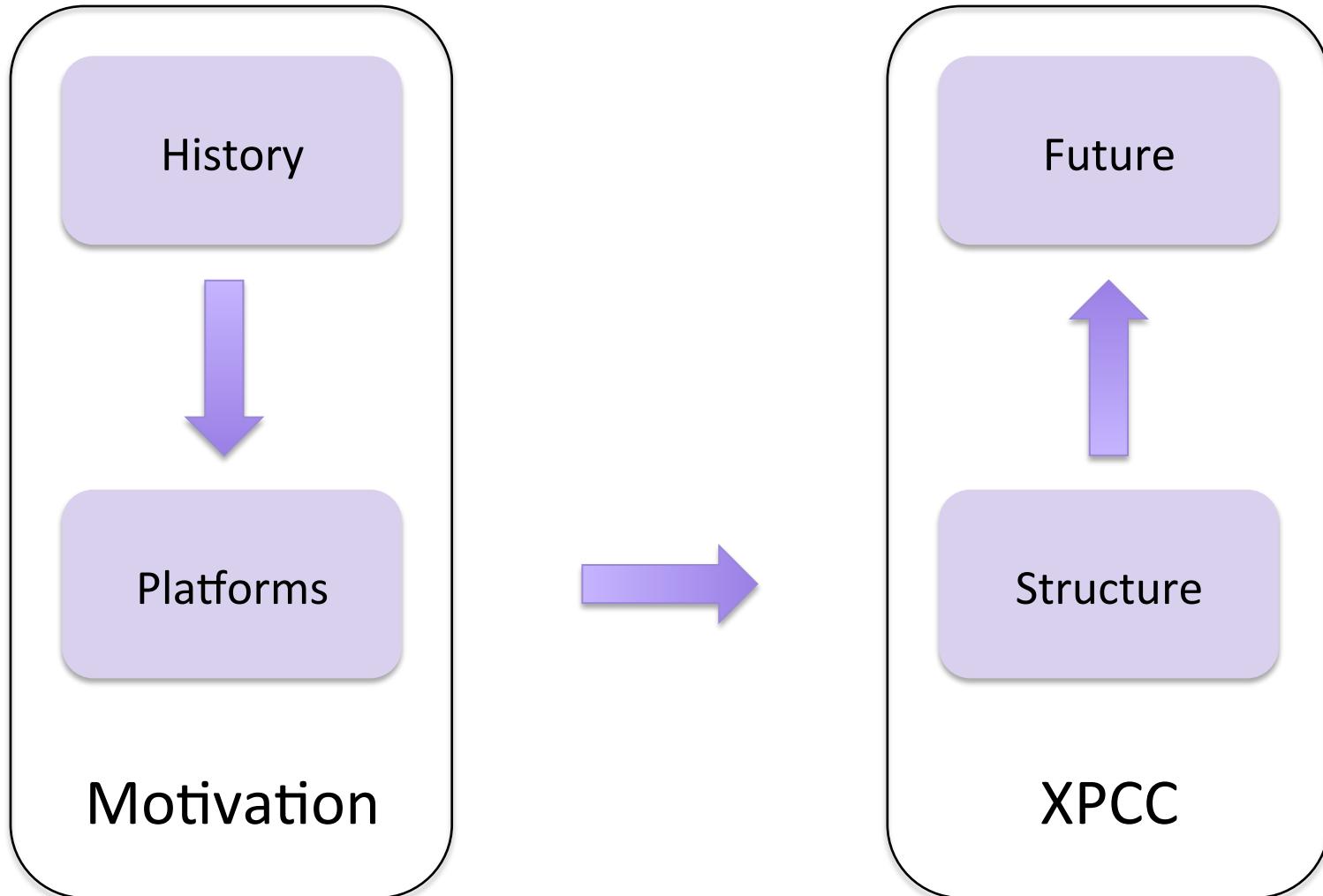
Introduction



Introduction

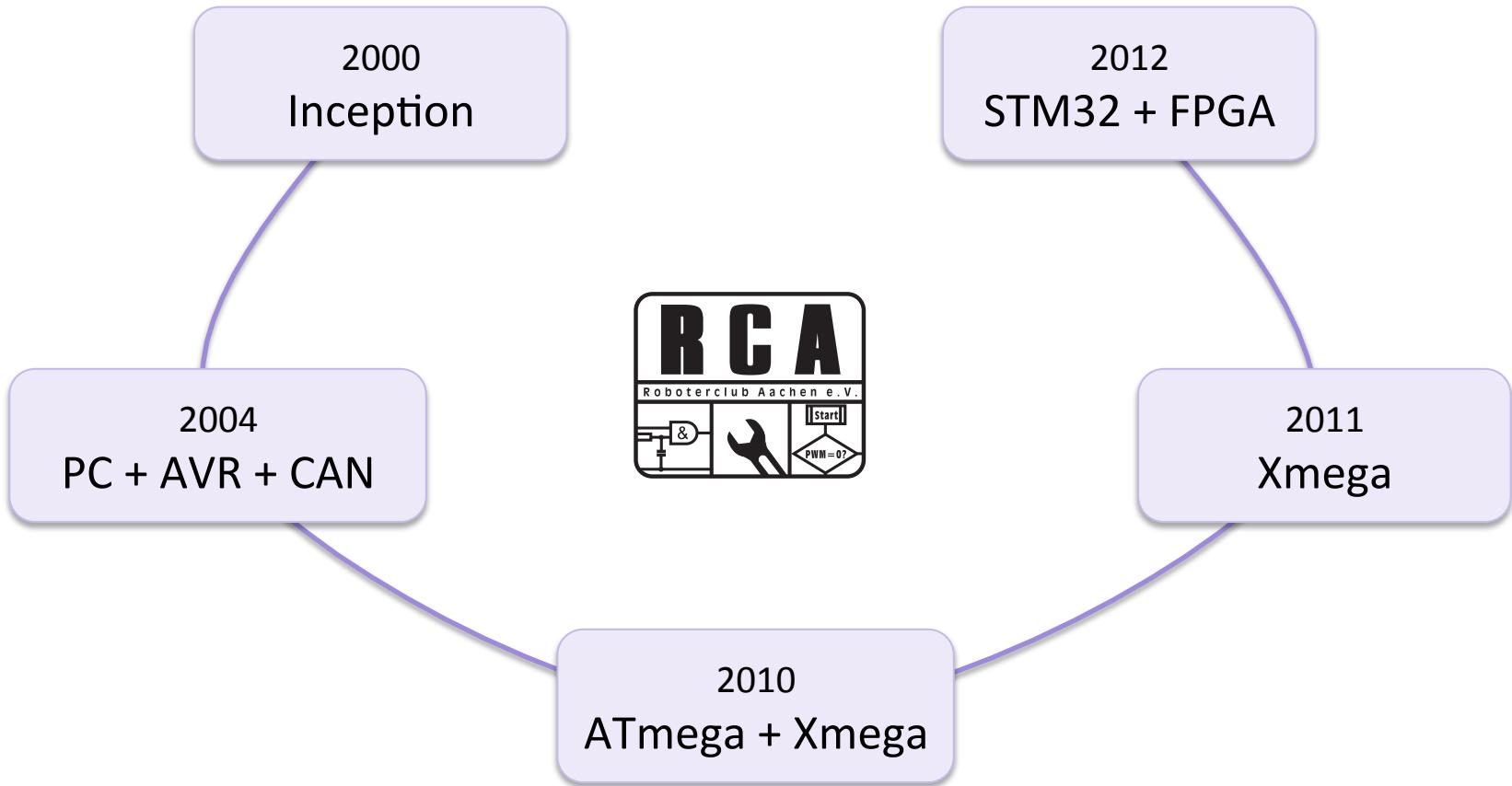


Agenda



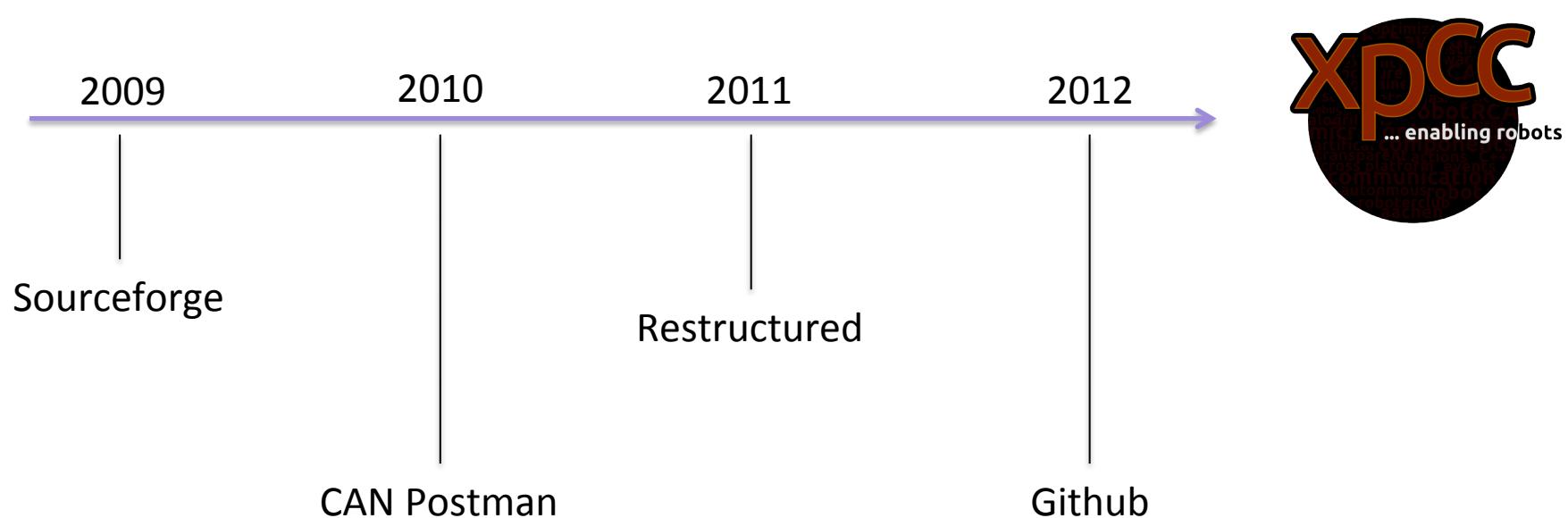
History

RoboterClub

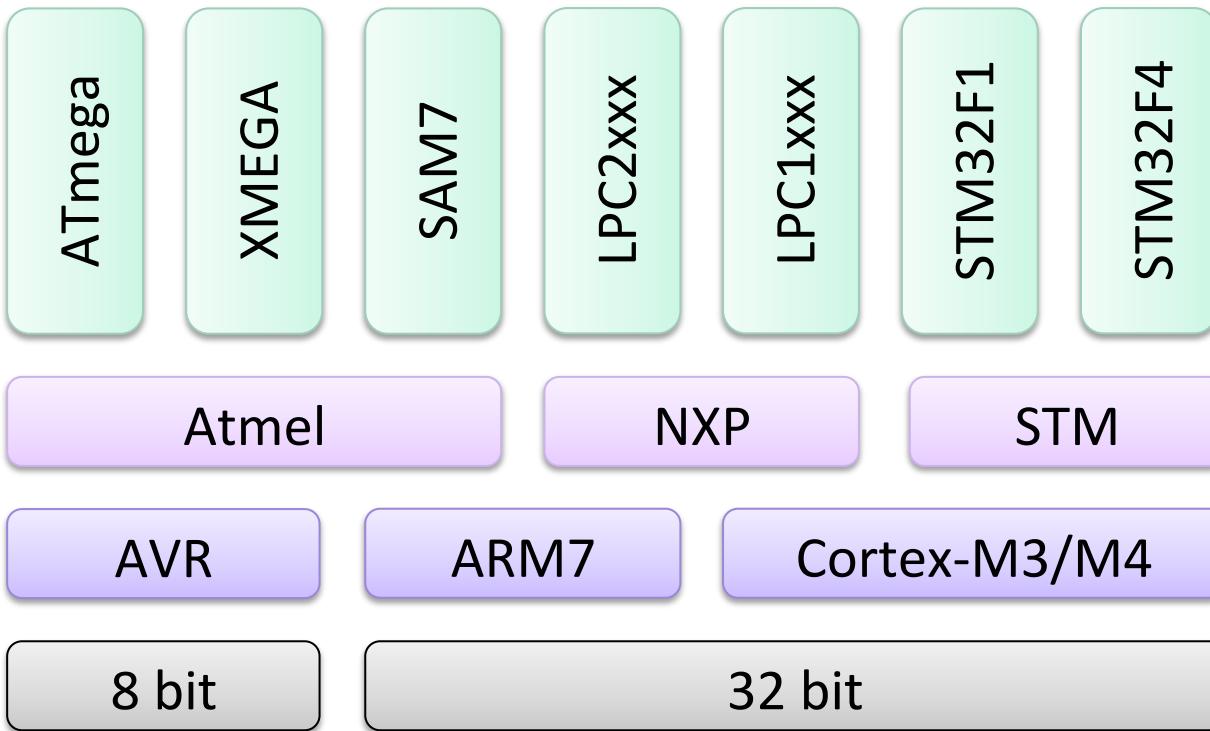


History

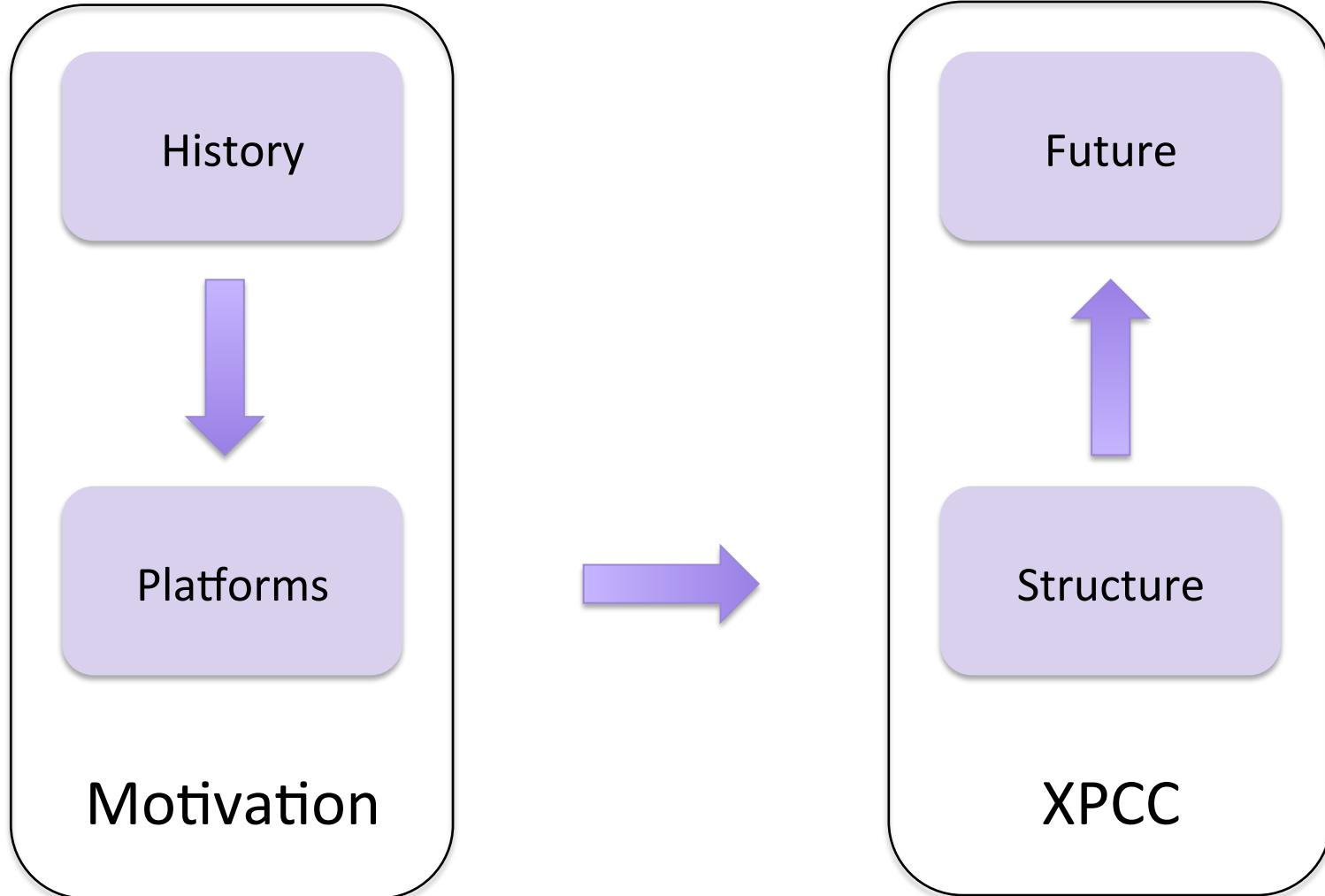
XPCC



Platforms



Agenda



Structure

Build System

compile

program

Software Construct

templates

documentation

unit tests

Structure

Language

static methods

inline methods

memory

C++

virtual functions

template classes

operator overloading

efficiency vs. usability

Modularity

Math, Filters & Geometry

Containers & Workflow

Abstract Drivers & Protocols

Platform independent interfaces

Platform specific implementation

Structure

Combine!

Interfaces

Divers

Workflow
Containers
Math

GPIO

Storage

Timer

UART

CAN

RTOS

SPI

UI

Matrix

I2C

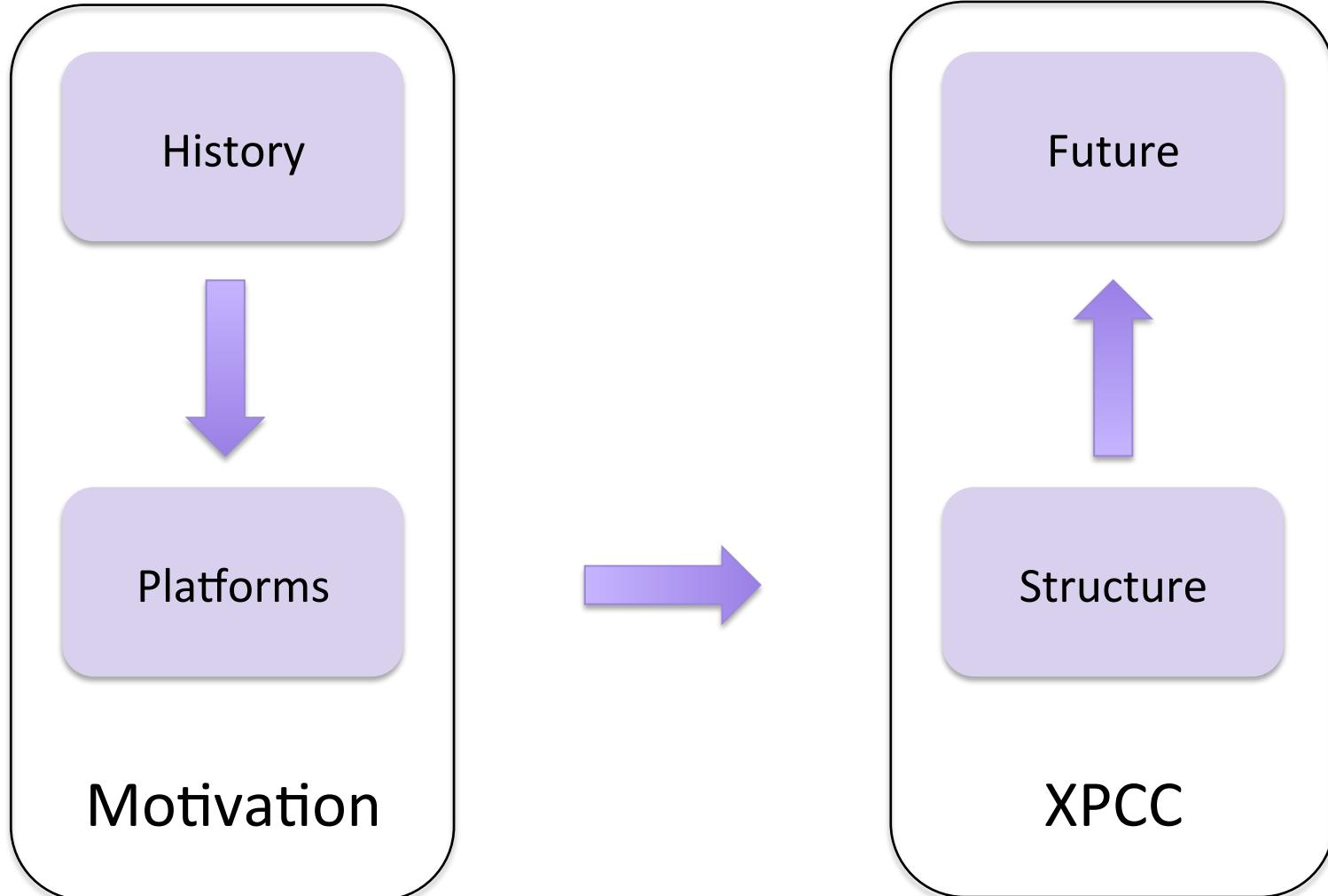
Sensors

Queue

×

×

Agenda



Future

Bluetooth

Timer/Counter
Interface

CAN & SPI
bootloader

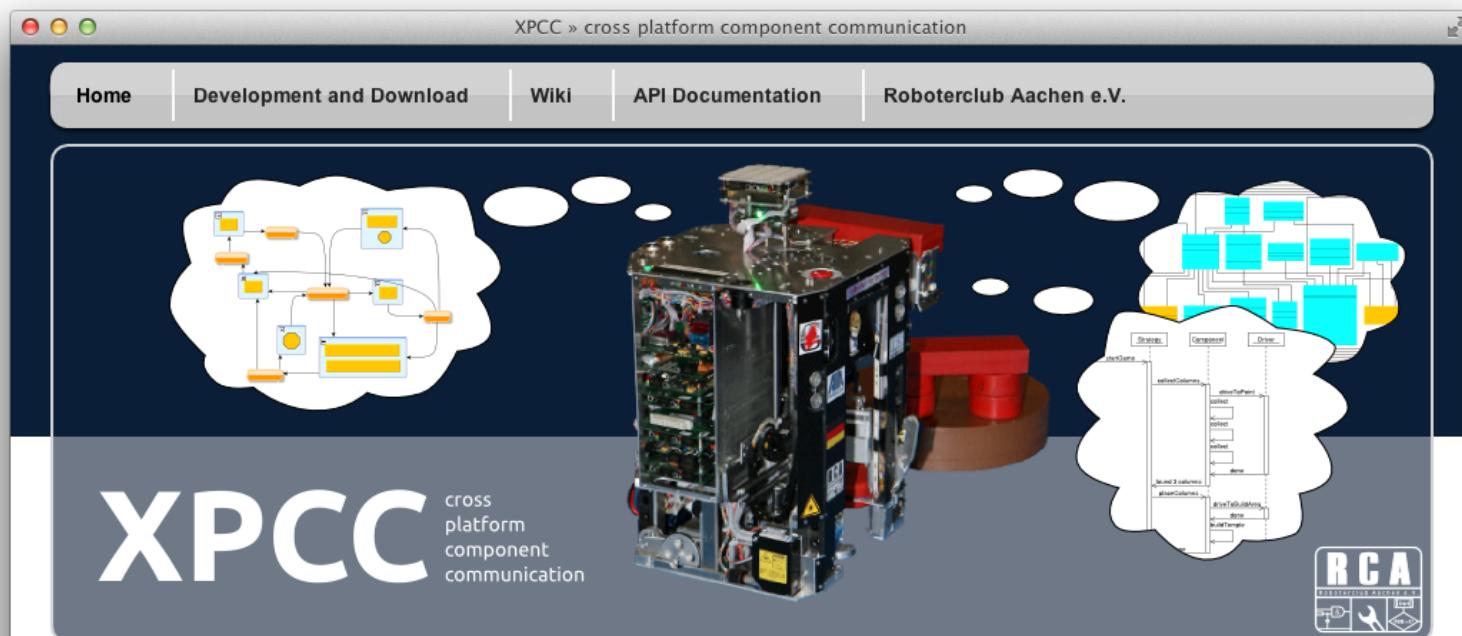
YOU

DMA
support

Rule databases &
complex gameplay

Token
Bus

roboterclubaachen.github.com



XPCC Cross Platform Component Communication

The XPCC package is a packet orientated communication library, that enables a transparent communication among components on PCs and microcontrollers. It provides an interface to communicate via CAN, TCP/IP and [TIPC](#).

Recent Updates

- 5th March 2012**
Project moved to GitHub
- 20th Jul 2011**
Creation of version 1.1
- 11th Jun 2010**

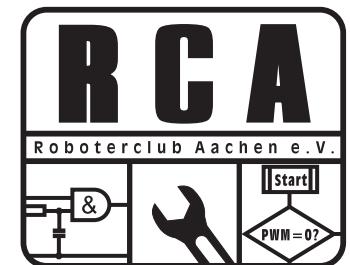
@salkinium



github.com/salkinium



roboTerclub.rwth-aachen.de



Questions!

