

R&D AGM

2025

PHASE EDUCATION · FORMERLY SHAPE ROBOTICS

10.03.2025

Today's Overview

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| 02 | Software Analytics | Fable Blockly, Fable Face, Fable Connect metrics |
| 03 | Upcoming Hardware | Hub v4 updates & Fable Essentials |
| 04 | Skriware + Shape Robotics | R&D teams in Denmark & Poland |
| 05 | Software Updates | Fable Face, Blockly 3, Multipanel UI, Python, AI Blocks |
| 06 | Education Insights | Teacher stress, student-teacher gap, quality trends |
| 07 | Phoenix Platform | Next-gen coding, simulator, CAD, VR, Code Playground |



HARDWARE STORY

Where are we now? — Updates in current products

Fable Explore 2.5

- 2 smart servos with high torque
- 180 degrees range of motion
- Phone holder for Fable Face integration
- Radio communication module
- 2 headlights for visual feedback
- Color sensors & IR sensor
- Li-Ion battery with USB charging



Fable Go 2.5

- Radio communication module
- Light sensors & color sensors
- 2 headlights for navigation
- Bumper sensors for collision detection
- Odometry in wheels for precision
- IR sensors for line following
- Li-Ion battery with USB charging





SOFTWARE ANALYTICS

Fable Blockly · Fable Face · Fable Connect

Fable Blockly

- Average session: 20 minutes
- Data timeline: Q4 2024 – Q1 2025
- Top countries: Italy, Denmark, Romania
- Visual block programming with auto Python translation
- Cross-platform: Windows, ChromeOS, macOS

Fable Face App

- Average session: 34 minutes
- Top countries: Romania, Denmark, Italy
- Data timeline: Q4 2024 – Q1 2025
- Robot expression and personality control
- Available on iOS and Android

Fable Connect

- Average session: 33 minutes
- Denmark-focused deployment
- Data timeline: Q4 2024 – Q1 2025
- Hub connectivity and management tool



UPCOMING HARDWARE

Hub v4 & Fable Essentials

Hub v4

- Color pairing for easy identification
- Wi-Fi + Bluetooth 5 (LE) connectivity
- USB-C charging and data
- Single button interface
- Accelerometer for motion sensing
- 1× Distance sensor (2 meters range)
- 2× Color and light sensors



Fable Essentials

Complete kit with Fable Go + Fable Explore — everything schools need to get started.





SKRIWARE + SHAPE ROBOTICS

R&D Teams: Denmark & Poland

R&D Denmark & Poland

- Cross-functional R&D collaboration
- Hardware engineering in Denmark
- Software development in Poland
- Shared product roadmap and vision
- Integration of Skriware platform capabilities



SOFTWARE UPDATES

Fable Face · Blockly 3 · Multipanel UI · Python · AI Blocks

D O N E

Fable Face — Updated

- Redesigned connection flow (no dongles needed)
- Seamless Bluetooth pairing experience
- Hub auto-discovery and one-tap connect
- Available now on iOS & Android

AVAILABLE NOW

Blockly 3 — Web App

- Full webapp — runs on Windows, ChromeOS, macOS
- New camera integration
- Phone-based sensing capabilities
- Ready for classroom deployment

NEW

Multipanel UI

- Content viewer panel
- Camera stream panel
- Generated code panel
- Console output panel
- Drag & customize panel layout
- Side-by-side coding and testing

NEW

Python Coding

- Native Python code generation from blocks
- Full Python editor mode
- Direct robot API access
- Transition path: Blocks → Python

UPDATE COMING SOON

AI & Object Detection Blocks

- Object recognition blocks
- Person detection
- Color detection
- Distance sensing via camera
- AI-powered classification
- Visual block interface for ML features

Ready-to-Use Programs

- Follow the Leader — remote control via Fable Face
- Square Drawing — marker-based precision movement
- Multi-Joint Control — simultaneous arm movement
- Line Following — IR sensor autonomous navigation
- Spin Module demos and beginner examples



EDUCATION INSIGHTS

From schools around the world

The Challenge We're Solving

↑ Stress

Most teachers are stressed at school

↓ Balance

Work-life balance declining for educators

Growing Gap

Student population growing faster than teachers

↓ Quality

Education quality worsened in the past 5 years

10+ Apps & Platforms

- Fable Blockly 2 (Windows, macOS, iOS, Android, ChromeOS)
- Fable Blockly 3 (Web App)
- Fable Face (iOS, Android)
- Fable Connect
- Skriware Academy & Skriware Slicer
- SkriMarket & SkriKit Creator
- SchoolFlix — curriculum content platform
- Shape Robotics Teacher Zone
- Skriware 3D Playground



PHOENIX PLATFORM

Next-generation education technology

The Future of EdTech

Block Coding

Visual programming
blocks

Python Coding

Text-based
programming

Simulator

Virtual robot testing

Pilot Mode

Remote robot control

Terminal

Advanced code
execution

CAD Design

3D parts modeling

3D Print

Custom part
fabrication

VR Environment

Immersive
experiences

Code Playground

- My Projects — create and manage coding projects
- Featured content: Tokyo Sightseeing, Kruger Park Safari
- 5,431 created programs · 1,205 likes
- Curriculum-aligned activities
- Student engagement tracking
- Intermediate 20-30min activities

A Day in the Life of a Teacher

- Morning: prepare lessons with pre-built content
- Class time: students code and control robots
- Automated assessment and progress tracking
- Reduced preparation time through templates
- Fable & Phoenix integration for seamless workflow

Thank You

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