DFB presentation

Transforming Slovak Football: A 13-Year Journey of Digitalization

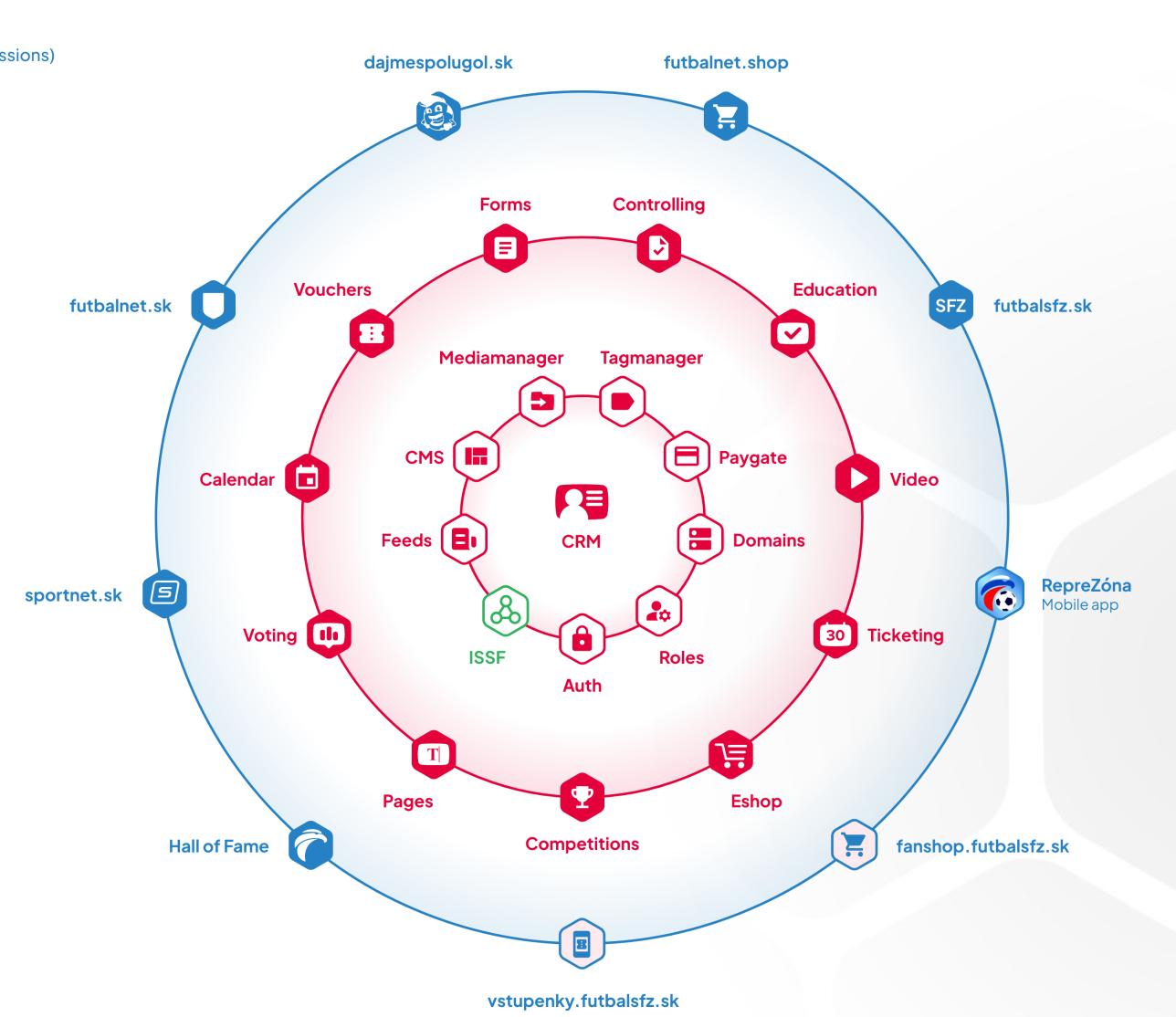






SFA Digital ecosystem





Tools for

- Football Fans
- Player
- Coach
- Referee
- Match Delegate
- Referee Observer
- Player Agent
- Club Official
- Hobby Player
- Teacher
- Parent
- eSports Player

Products applications

Native services applications
APIs for products apps

Core services

MongoDB cloud







ISSF parts (football and futsal)

Organizations

- All local FAs (42 organisations)
- Clubs
- Partners

Users, Roles, Permissions

Stadiums

- Pitches (grass, artificial, solid)
- Playgrounds

T Competitions

- Competitions
- Part of Competitions
- Teams
- Matches
- Price lists for delegated persons
- Allowed Trainer licences per competitions
- Applications for competitions
- Suggestions
- Delegate reports
- Observer reports

i Invoicing

- Only one invoice for club per month to SFA
- SFZ is Clearing house for all members
- Generation of payments to delegated persons

Commission

- Submissions from clubs, refferees, delegates
- Decisions
- Penalties
- Disciplinary decisions and sanctions

Reporting

- Special reports
- Statistics reports
- ... more than 15 customized reports

Register of persons

- Players
- Trainers
- Referees
- Delegates
- Observers
- Agents
- Contractual employment relationships
- Licences of trainers, delegates, referees
- Membership fees
- GDPR approval
- Contracts of players, trainers, others

Request

- Registration on FA
- Transfers
- Re-amateuring players
- Registration card (only digital, now)

System settings

- Service price lists
- Penalty
- Uxx, Age level settings
- ... and more



ISSF statistics (2012–2022)

Transfers: **334 813**

Registration request: 170 002

Request for a registration card: **340 202**

Matches: **generatd 576 921, closed 480 482**

Invoices: 267 880, Items on Invoices 2 026 355

Checked through invoicing: 47 957 400,82€

Comitee decisions: 226 031 (103 960 disciplinary)

Registered personal accounts: 470 499

Active personal account: 197 122

Registered stadiums: 2056

Card: yellow **760 634**, second yellow **23 219**, red **25 785**

Goals: **2582921**

The number of spectators: 36 578 911

Count of minutes played: **861 010**

Count of delegated persons: 4 261

Count of paid rewards to delegated persons: 688 141

Sum of paid rewards to delegated persons: **30 856 055,23€**

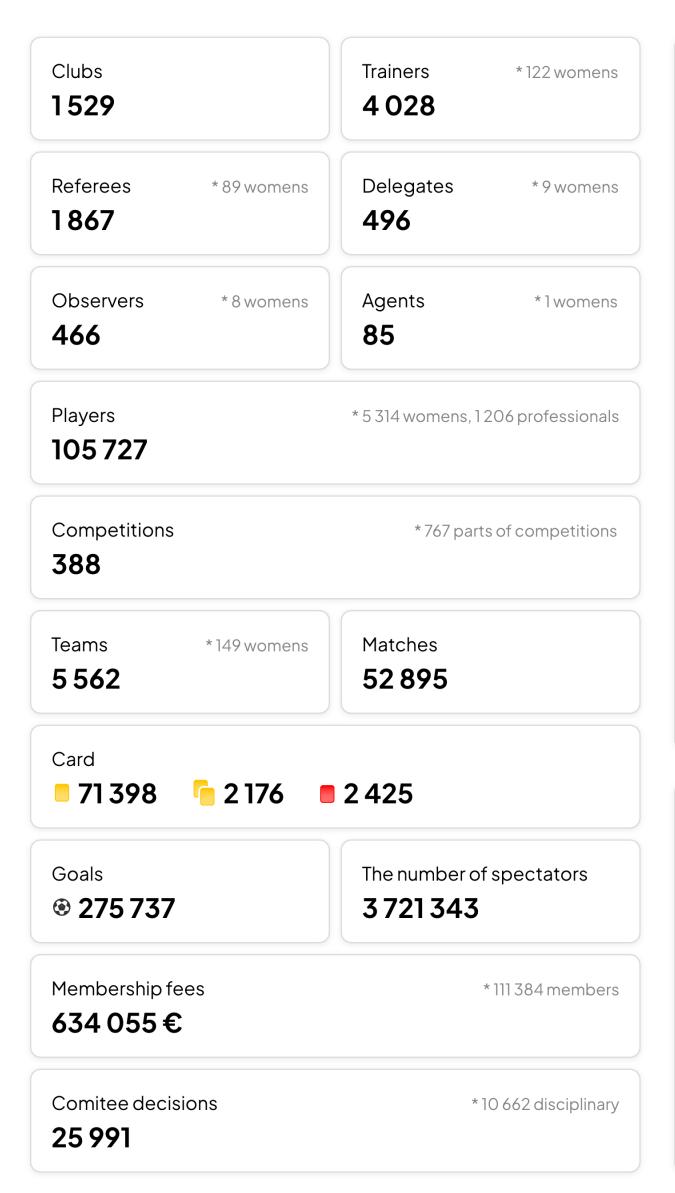
Number of hours worked by delegated persons: 381 611,50 hod

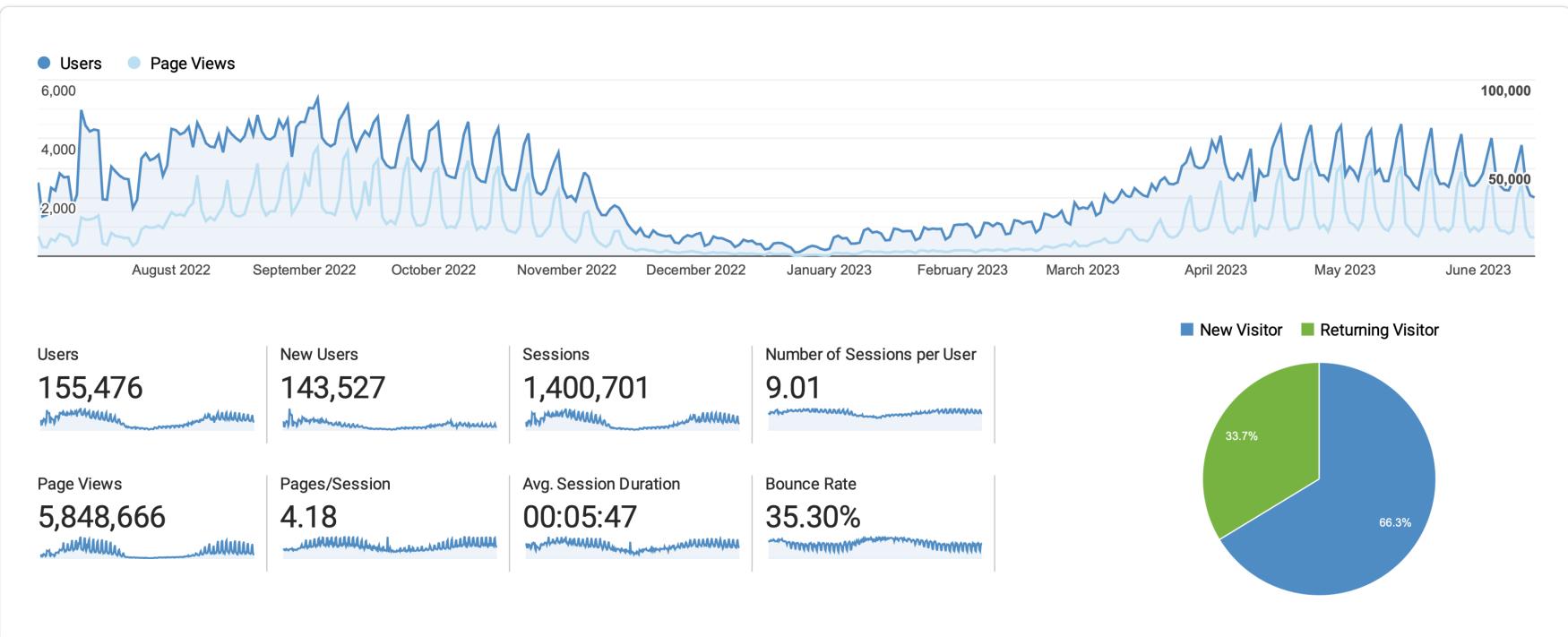


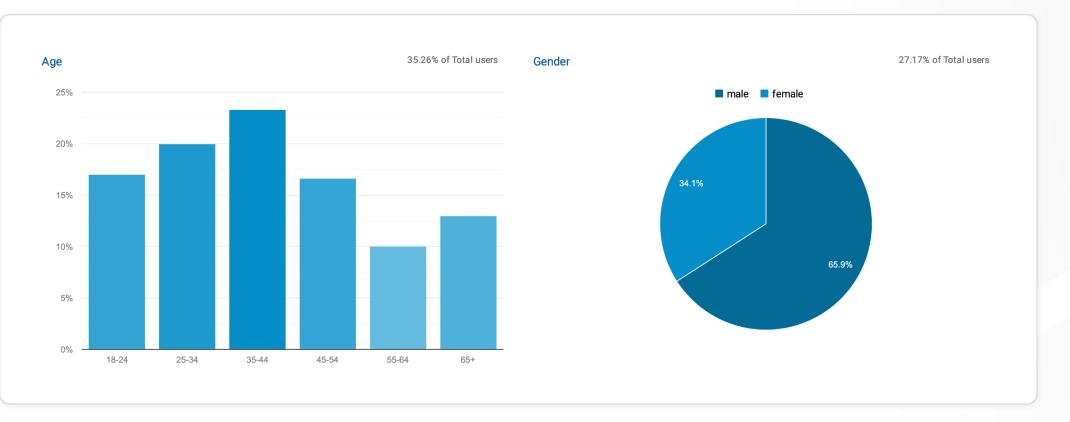




SFA season 2022/2023





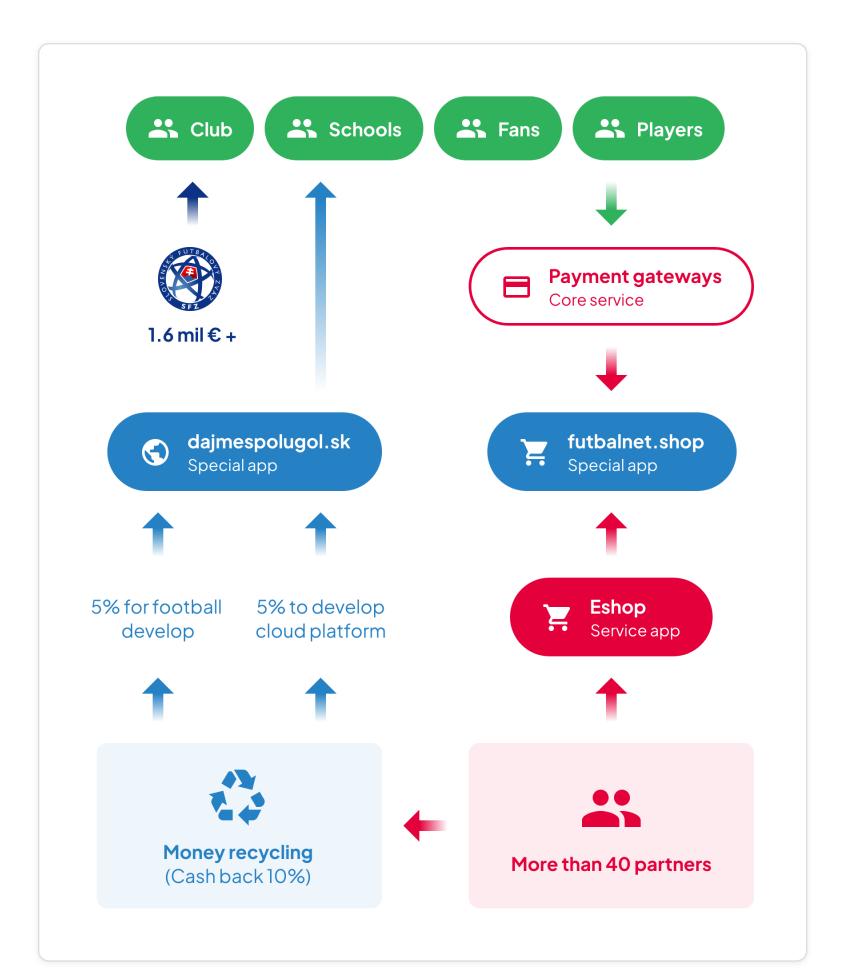


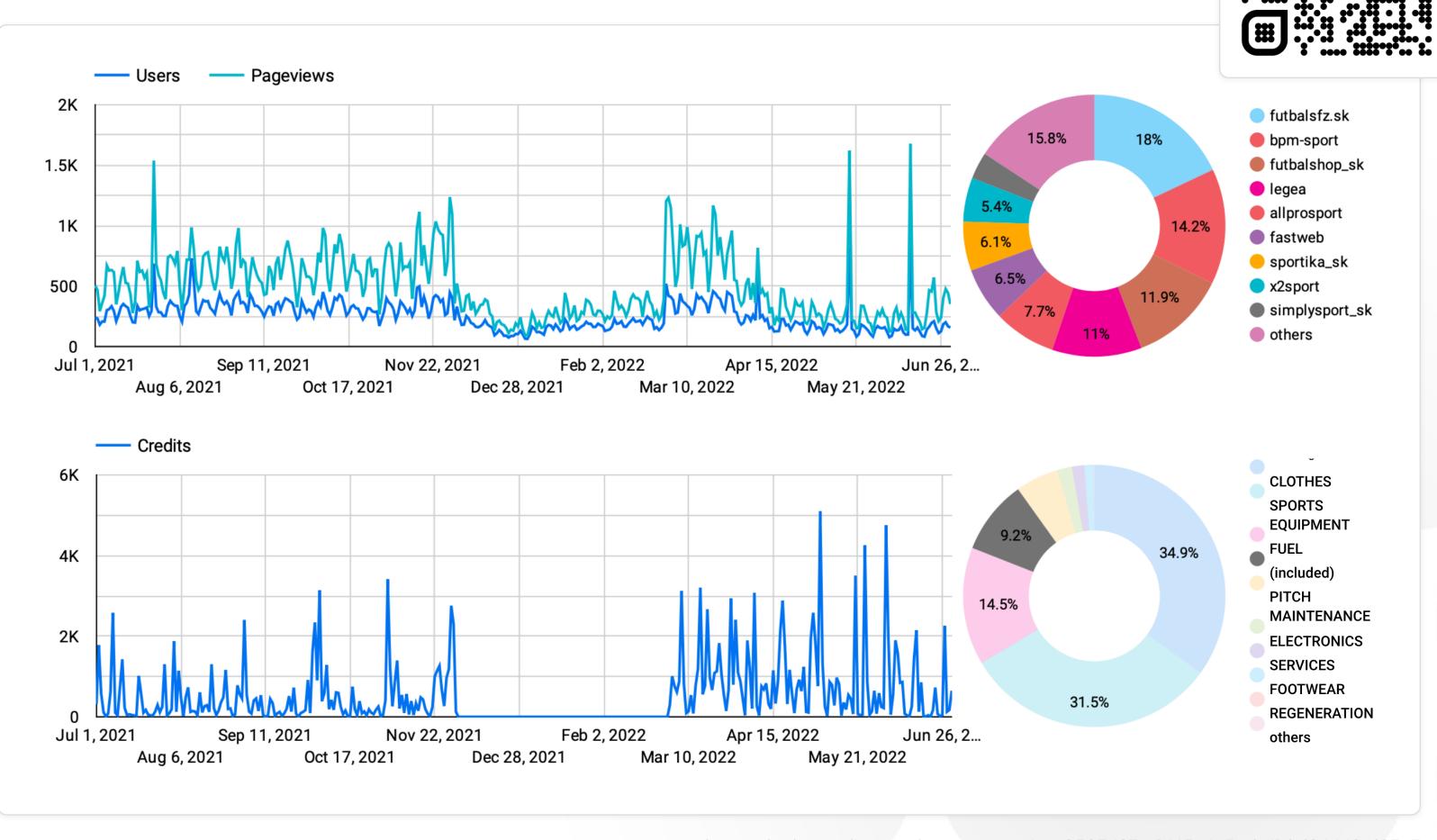






Credit eshop business model





https://lookerstudio.google.com/reporting/0503497e-1465-4c5c-b41d-f06448cf03e7

2017

- 1064 874,45 € Distributed in Credits + Paywall 21 379,89 €
- Financial Support of 1254 Clubs (2 644 teams, 402,76 €/team)
- 8 Partners
- 1315 Customers
- 4160 Orders

2022

- 1763 503,37 € Distributed in Credits + Paywall 89 392,58 €
- Financial Support of 1 412 Clubs (52 116 active players, 2,43€/player/start in match)
- 40 Partners
- 1451 Customers
- 7351 Orders











Impact on society



Increase in membership base

Partner

- Targeting families with children
- Opportunity to communicate social responsibility

Child

- Building a relationship with exercise
- Health
- Inclusion

Parent

- No logistical barriers
- Qualified coach on site directly at school



- Qualified schoolclub
- Improvement of the equipment

City

- Talent scouting
- Contact with the surrounding community

Project vision

- Gradually expand the project to all age levels
- Long-term project continuity with partners
- Partners with common values

> 20 000 More children playing sport

>1000 More active coaches

>1000 More schools involved



School funding

The financial contribution is provided as a reward to the licensed coach in the amount of at least 50 € per month, 10 months per year (school year). The minimum annual contribution per coach and school is 500 €.



Funding of online education of youth coaches

Grassroots leader license

The possibility to pay for the continuous education of the youth coach. This is online education for every parent, teacher, sports fan. (authorization to educate from kindergarten to age level U11)





Golden Partner

- Over 100 000 € / per year
- "General Partner" status with "naming" in the project name
- Possibility to use the logo and the name "Golden Colour"



Silver partner

- Above 50 000 € / per year
- "Project Partner" status
- Possibility to use the "Silver colouring" logo



Bronze Partner

- Up to 50 000 € / per year
- "Project Supporter" status
- Option to use the "Bronze colour scheme" logo

Possibilities of longterm cooperation

Planned expansions of the project

8 2 3 8

Sporting children



399

Schools involved

Discounted sale of support packages, according to the partners' possibilities (healthy food, sports equipment,

415

Active trainers

clothing...)



Creation of a simple mobile app for communication "in hand" for everyone with the possibility of sports education and other information with activity planning and communication between people and groups in the app/platform



Expanding the "GOALLIE" family (sister, mom, dad, friend, grandparents, teacher, coach)



Earning and sharing "badges" for different activities, loyalty system for everyone, partners, parents, schools, clubs, collecting activities



Club development

Coach agenda

Calendar, planning, players attendance
Statistics

Training sessions
Creating session, weekly and monthly plan

Education
Courses, Webinars

Matches

Player's homework

Trainings for players (pictures, videos)
Feedback from players

Match sheets - evidence, statistics, player's reports, player's evaluation, analyses

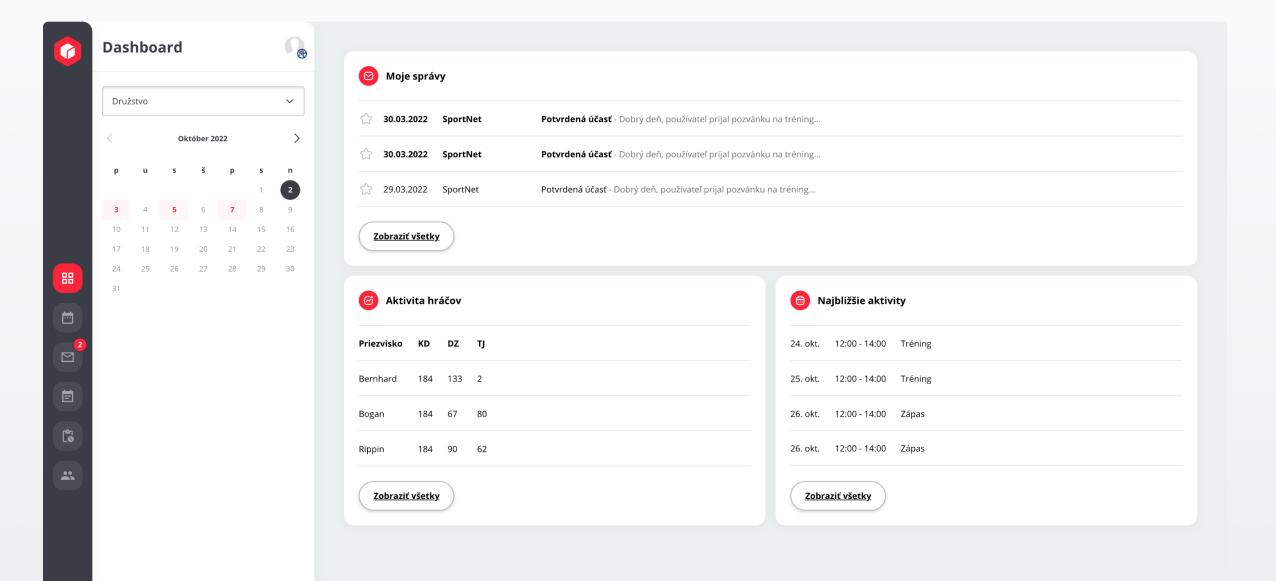
Club manager agenda

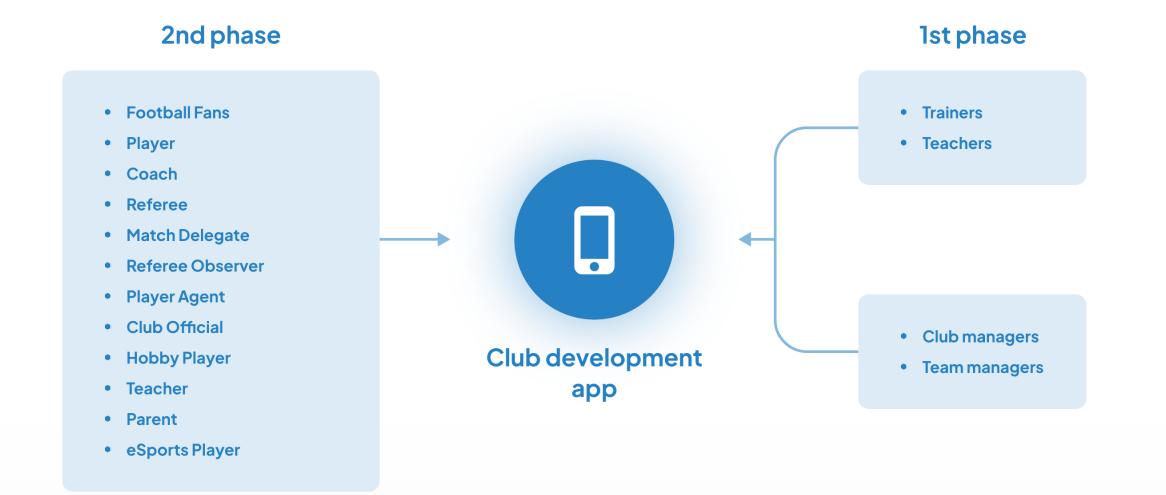
Teams, cooperation-links between club and school

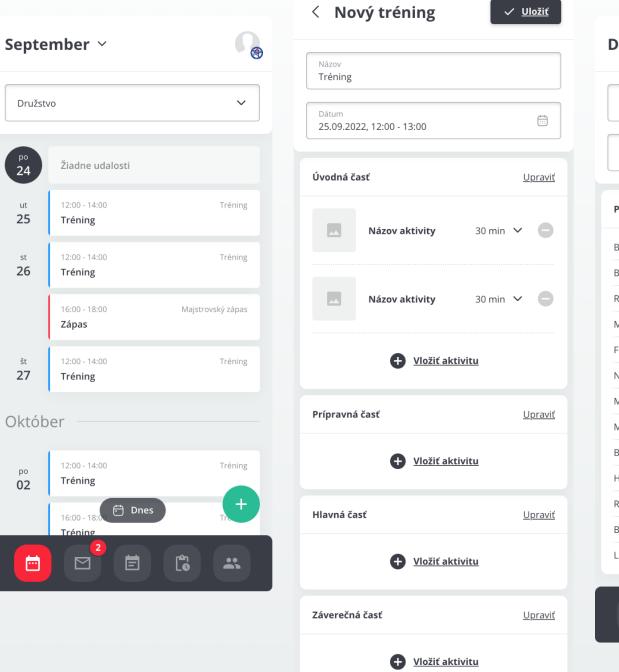
Evidence, list of the teams by categories in the club

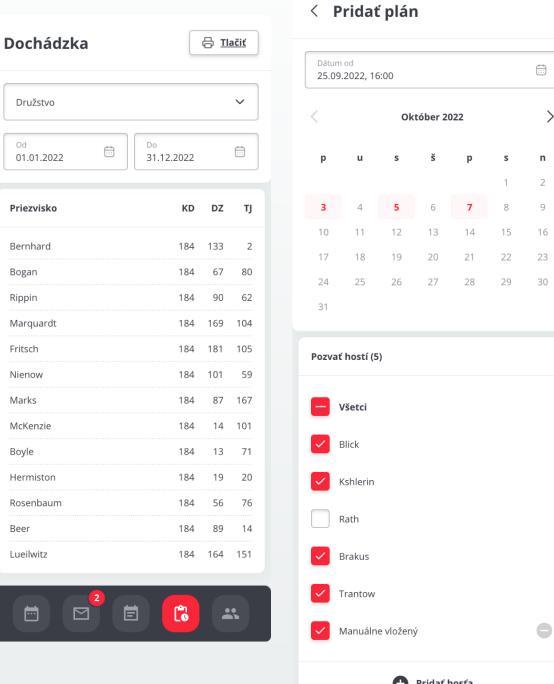
Club's structure (human resources)

Club's infrastructure and its quality (changing room, pitches, etc.)



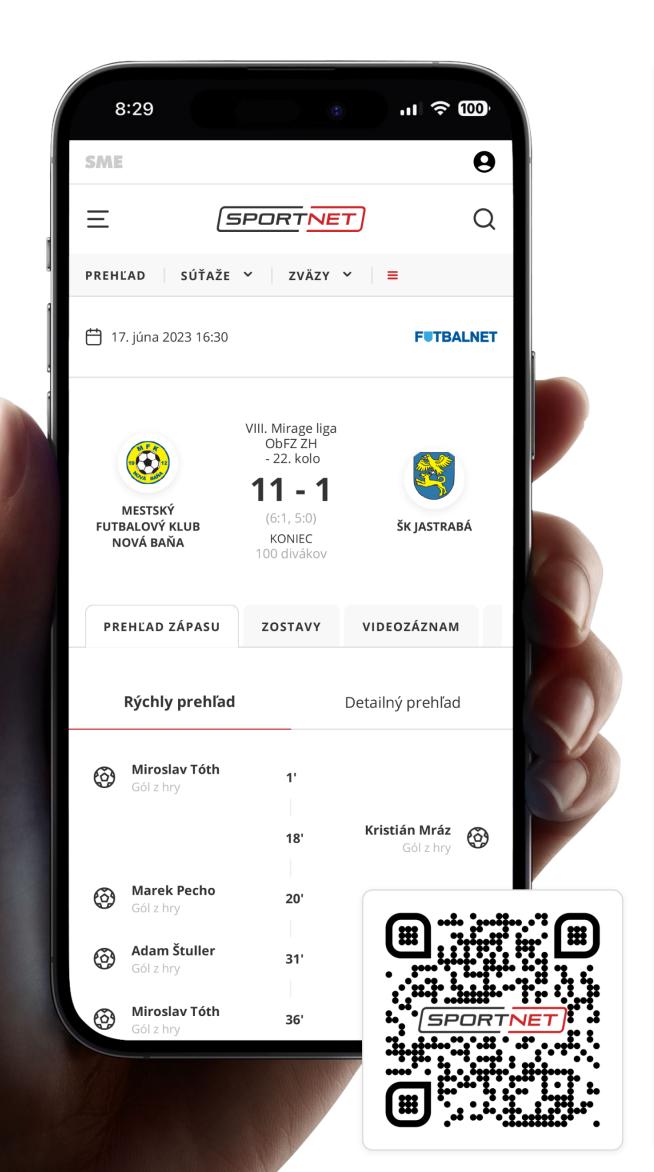


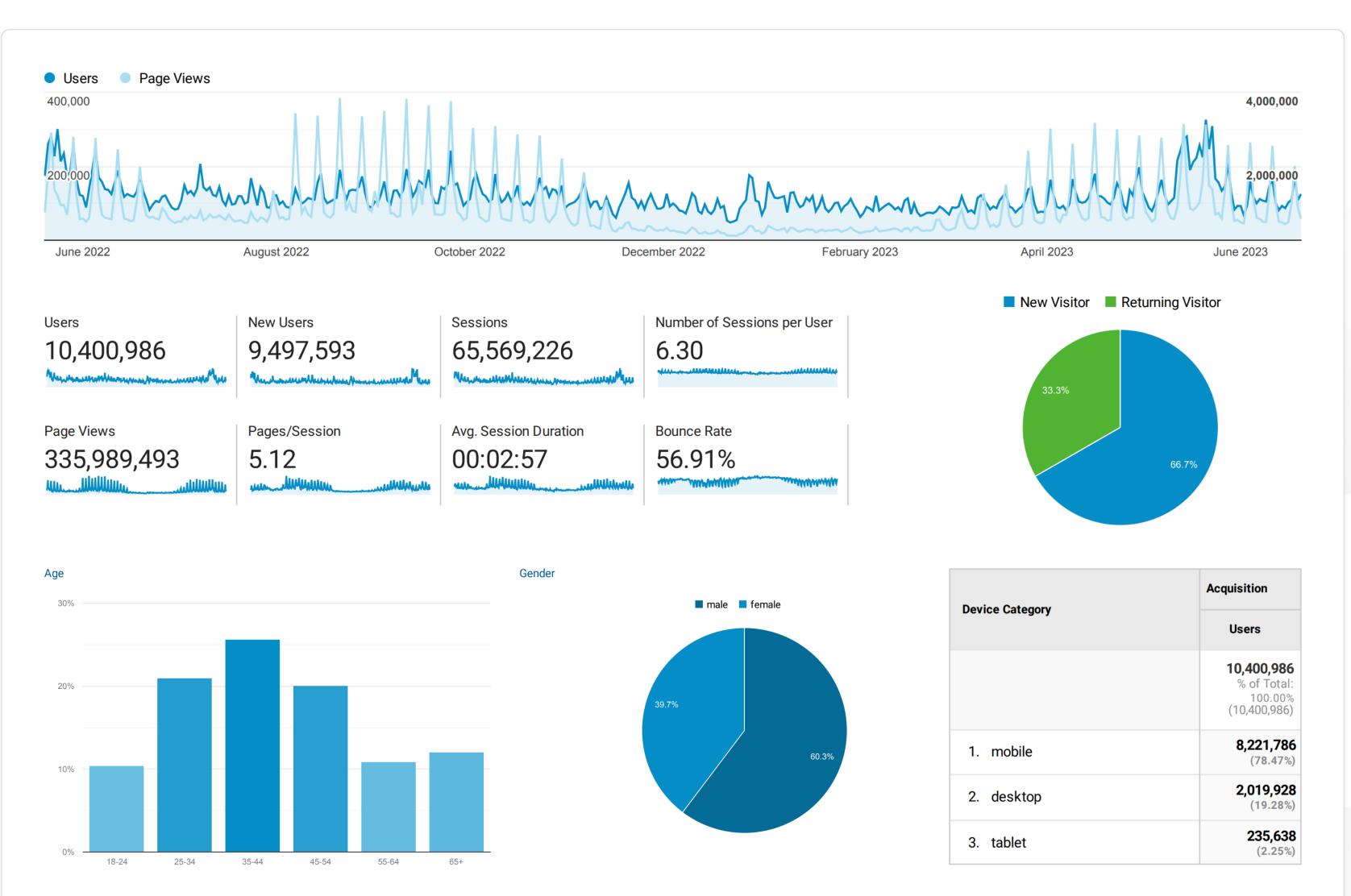




Sportnet.sk / Futbalnet.sk









Sign up for newsletter from 01/27/2023

Website visit from 01/28/2023

First order from 02/01/2023

Signup to loyalty program online from 02/18/2023

Email campaign launch for Fortuna league from 03/22/2023

Second order from 03/29/2023

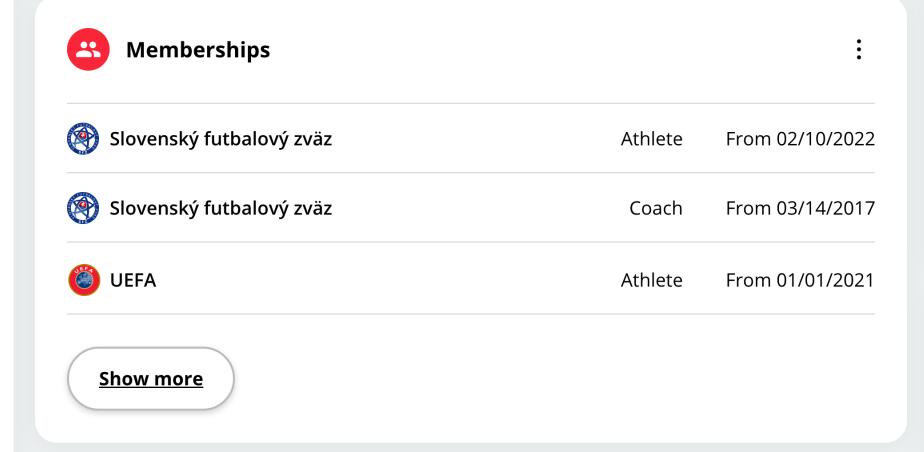
Website visit from 03/29/2023

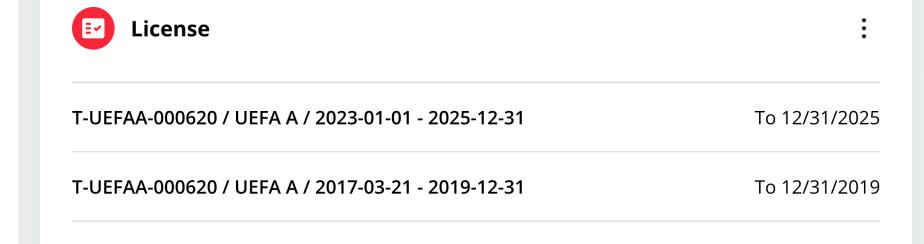


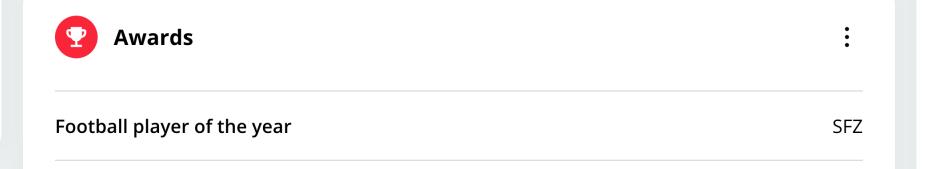
Marek Hamšík

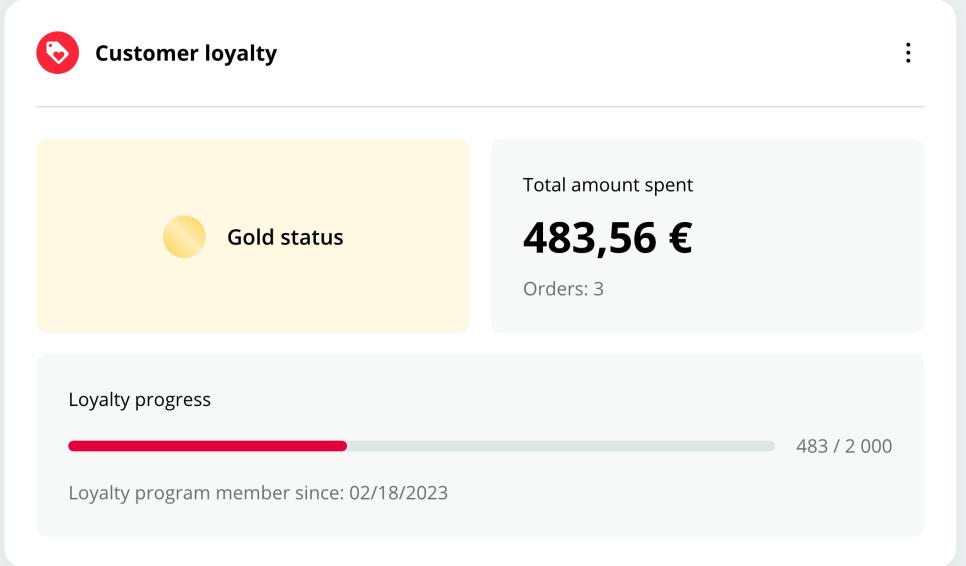
Age: 35 years old

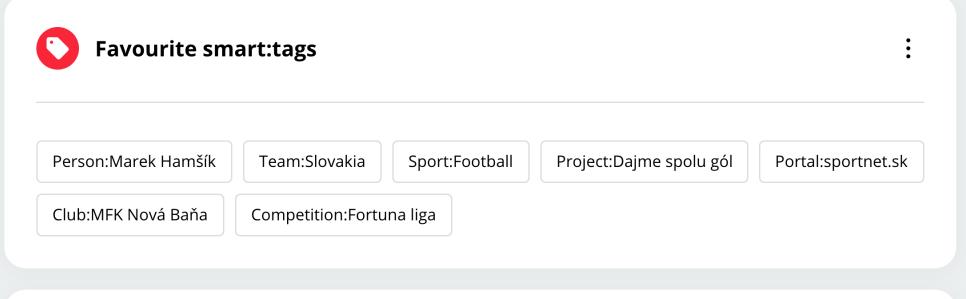
SportNet ID: 57488552818b284284a28cf5













Tagmanager

- SMART:TAG
- Connecting content between apps
- Tagmanager UI managing SMAR:TAG changes
- Tagstream tag changes stream for apps

CRM CRM

- User info
- PPO and ORG info
- Courier messages
- PPO users
- PPO groups + users
- PPO user invitations

Core services

Domains

- PPO + APP = Custom domain
- Used by OAuth validation
- Custom UI component

Paygate

- Generalized payment system
- Independent from Payments provider
- Refunds
- GCP Pub/Sub messaging

CMS

Versioned paygate setting per PPO

• Used as a content manager in any

• PPO + APP + DIVIDER (you can use more instances for single app, e.g.

eshop saleschannel)

• Redirects management

• Widgets expander for every app

CRM to USER(s) messaging platform

• Email notification about new message

• Automated notifications from services

Widgets system

Articles

Sections

Listings

Doctypes

Courier

Static content

Mediamanager

- PPO + APP storage space
- Cloudflare caching
- Automated image optimization
- Custom UI APP
- Fulltext search in images
- Connected to other UI components
- Automated imports from external sources
- Virtual folders management
- Automated files expiration

₽⇔ Roles

- PPO + APP = AppSpace
- PPO + APP + USER = Role

PPOS PPOS PPOS PPOS PPOS PPOS PPOS Position Pos

➡ Mediamanager

I CMS

Courier

Auth

- OAuth2.0 + OpenID
- Password reset
- JWT
- Registration and login
- Facebook
- Native
- Google
- SME
- ISSF
- One time password
- PPO Roles
- PPO Domains
- AppSpaces

E Feeds

- PPO feeds management
- Feed item share URL
- Feed item from different apps
- Ticketing
- Pages
- Eshop
- Custom
- Open API for 3rd apps
- Mobile APP
- sme.sk sport news feeed
- Adverts management

12 Invitations

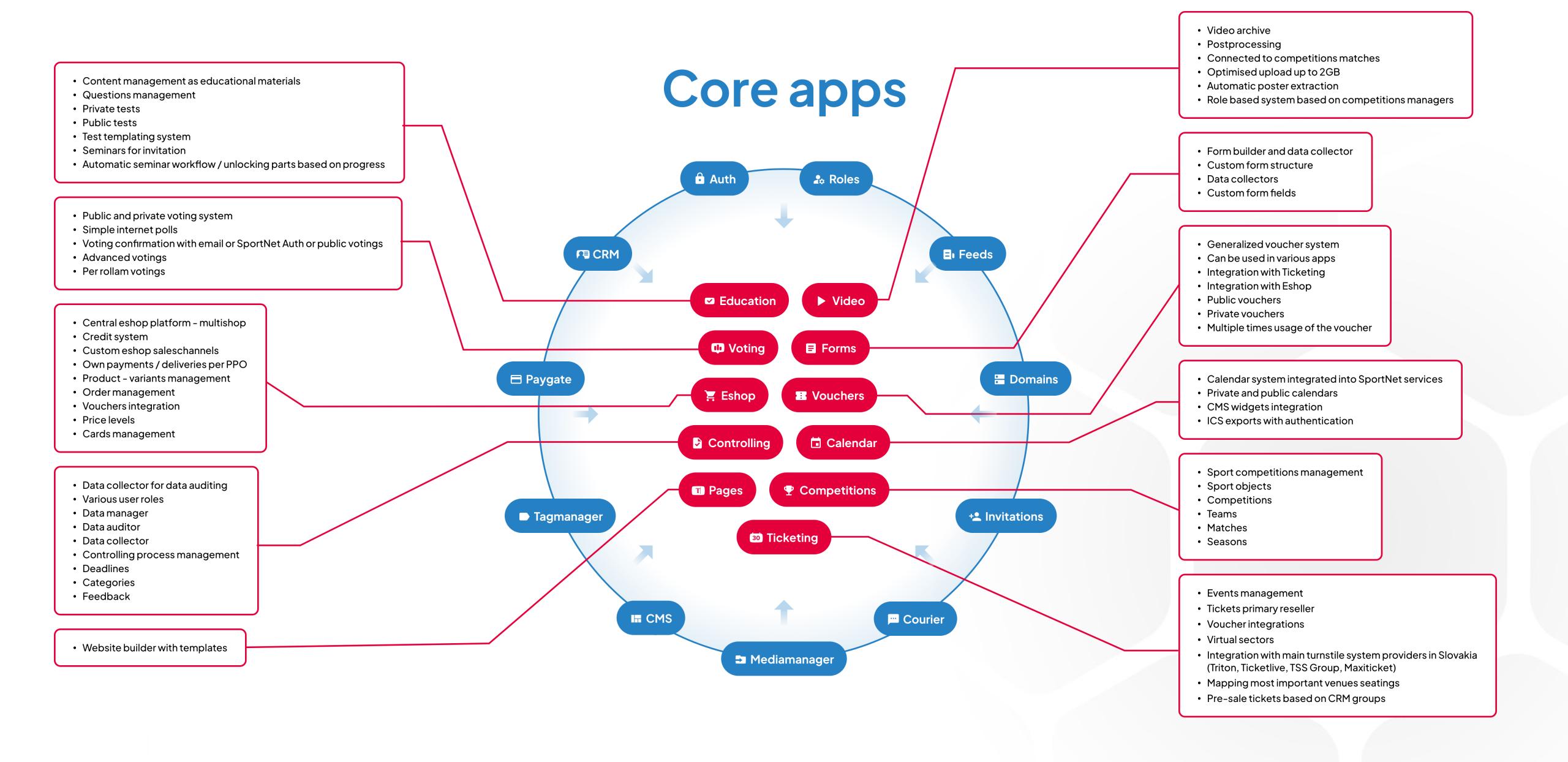
- Service + USER
- Sending to emails
- User login / Registration
- Accepting / Rejecting
- Follow up link

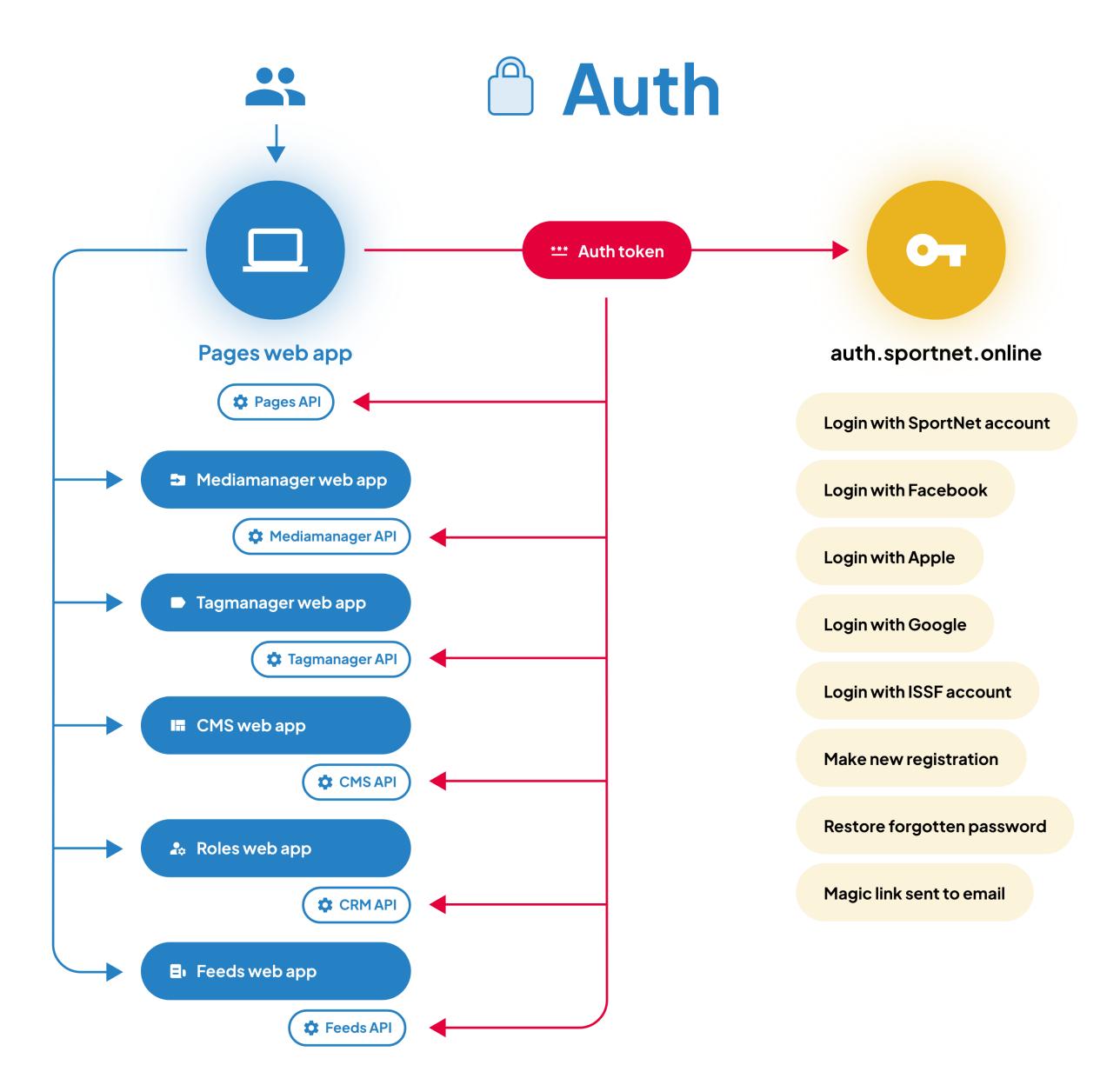


• Read report for sender









*** Auth token is JWT

- Signed by private key issued by auth.sportnet.online
- Can be verified by public key accessible as JWKS at https://auth.sportnet.online/.well-known/jwks.json
- aud: Application which requested the token
- iss: auth.sportnet.online
- **sub**: User's SportnetId
- alg: RS256
- **exp**: 900s
- dnm: User's display name
- azp: AppSpace (PPO)
- grp: User's groups within PPO
- roles: User's roles for requested AppSpace and SubApps (mediamanager, feeds, tagmanager, etc...)

○ Authorization uses OAuth 2.0 standards

- Code flow support
- PKCE support with refresh tokens
- Permanent login uses LoginToken stored in cookies securely for auth.sportnet.online domain
- List of logged in sessions for user
- OpenID scope support ID token is issued
- Phishing protection by checking redirect uri domain connected to domains api
- Protection against multiple usage of same refresh token
- Logout from all sessions support

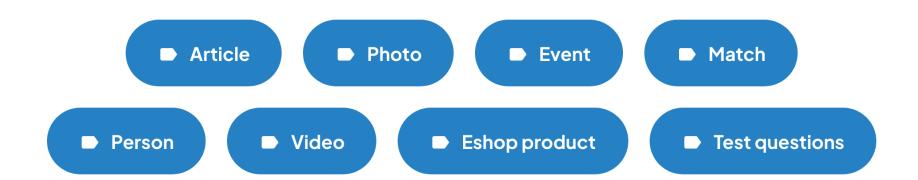








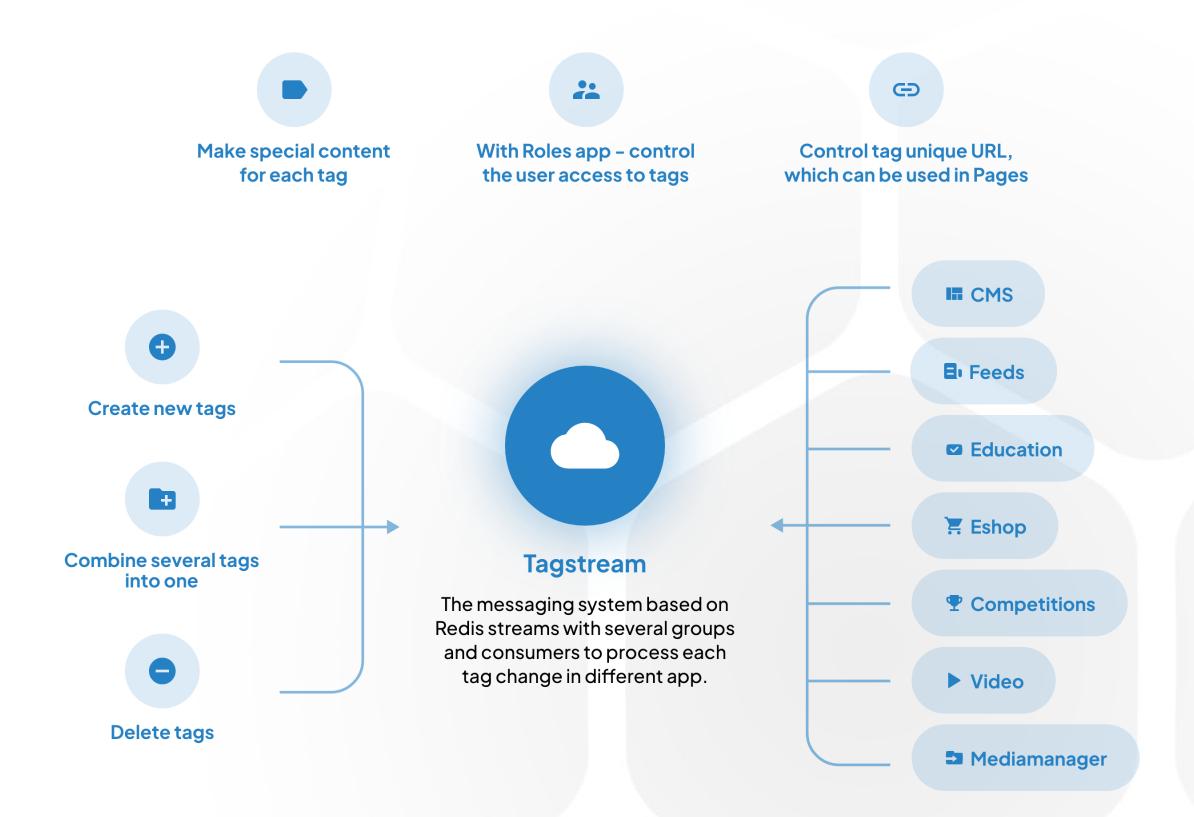
Unique tagging mechanism to connect any type of content between different apps



If the different types of content shares the same smart:tag, they are considered as related. We can for example display all articles about particular person (football player) including all photos of the person, link the events where you can buy tickets to matches he plays and display the questions in form of public test from Education app.

Tagmanager

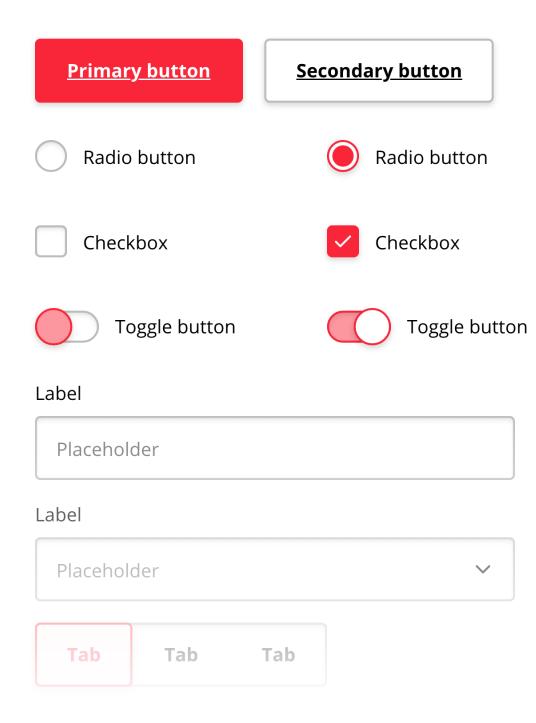
Web application to maintain smart:tags





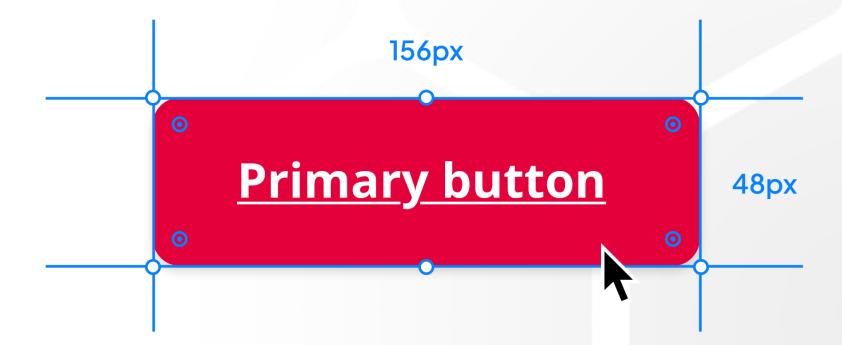






Sportnet UI

one UI across the entire system

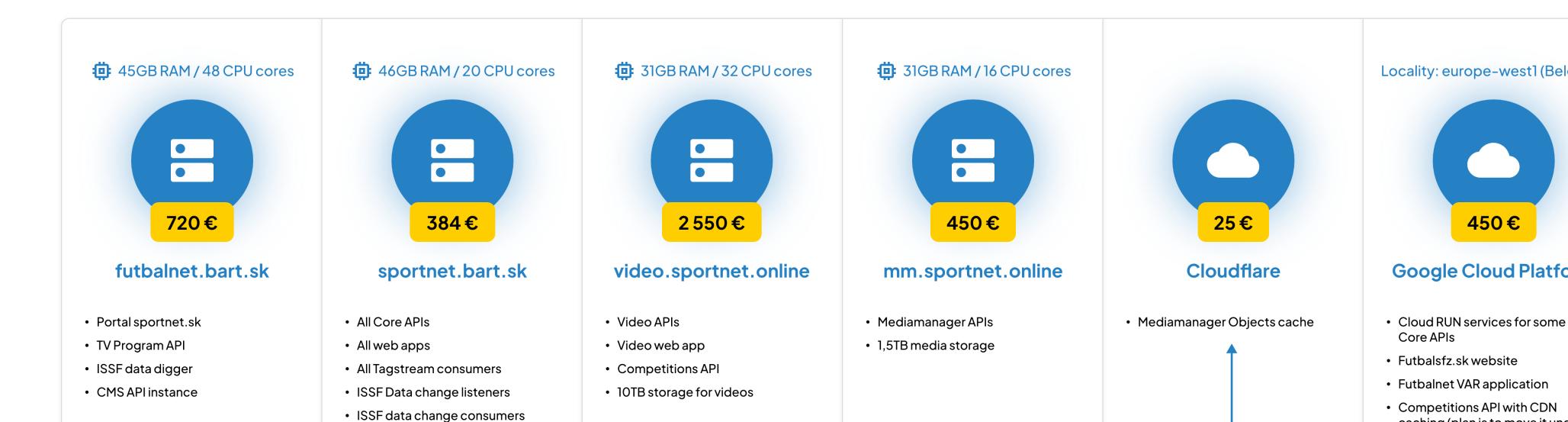


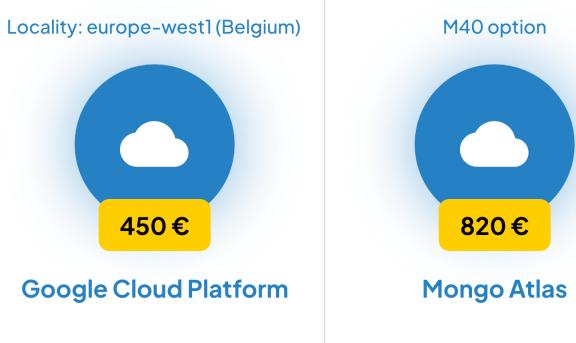






Sportnet infrastructure





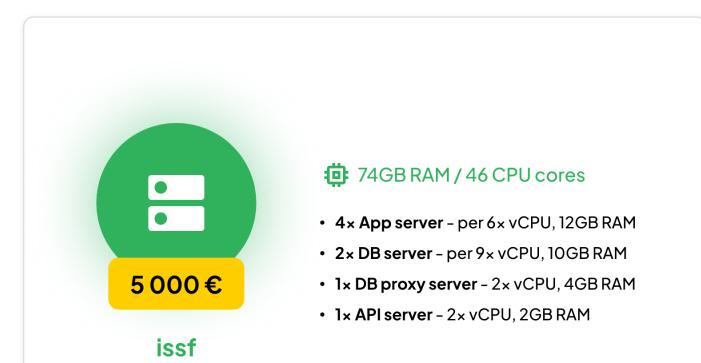
caching (plan is to move it under

• Private network connector to

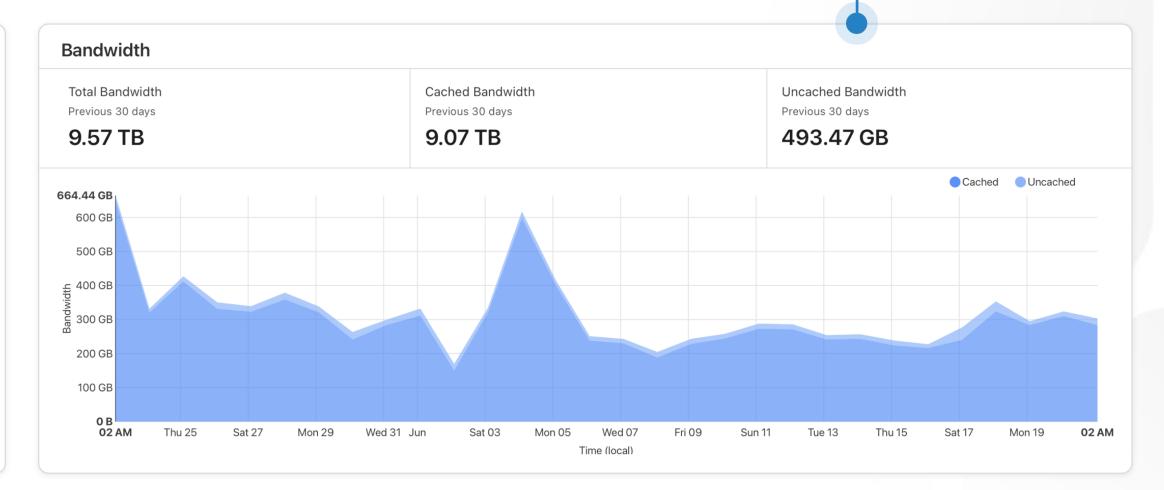
cloudflare)

Mongo Atlas

- All databases (running also on GCP)
- Atlas Search for some fulltext functionalities
- Atlas triggers for background jobs over data
- Atlas charts for visualizing some data (currently in experimental mode only)



• Tolgee app for i18n



DB STORAGE: 24.58GB

DB LOGICAL DATA SIZE W/ SYSTEM: 106.35GB

DB LOGICAL DATA SIZE: 104.61GB

DB INDEX SIZE: 3.57GB







... and what's next?

building services for football development and football as a lifestyle, social ...





