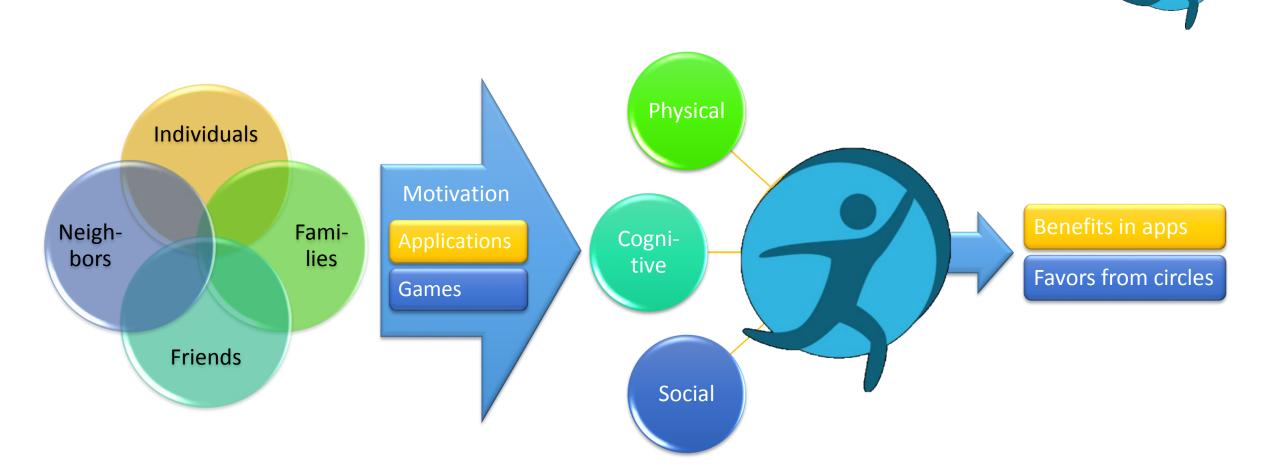
Gamification for Healthy Life The GOAL platform

Aristodemos Pnevmatikakis

Multimodal Signal Analytics Athens Information Technology







Scope

Earning GOAL Coins in games







Spending GOAL Coins in games



GOAL Coins from physical activity



GOAL Coach: Personalized & digital



Be more active 12:15 Don't fall behind! Estimated active minutes 47 less than goal.

Cannot really do this...



GOAL Coins are awarded for all activities in consultation with your personal digital Coach

The Coach considers you and your past achievements to set your personalized goals

Personalized motivations urge you towards a healthier lifestyle



Social GOAL



Are you going for walks or play online with your friends?

• How about setting your own challenges for them, on top of those the Coach sets?

In GOAL's Social Marketplace you can set challenges for others, find challenges others set, and try to fulfil them

- These challenges can involve successes in any game, or physical activity feats
- They can also involve real small things in your life
 - have a friend bring over the newspaper, or a grandson visit you

Are your grandchildren not exercising enough?

- You can create contests for them or any of your circles of people
- Award the winner with some of your GOAL Coins

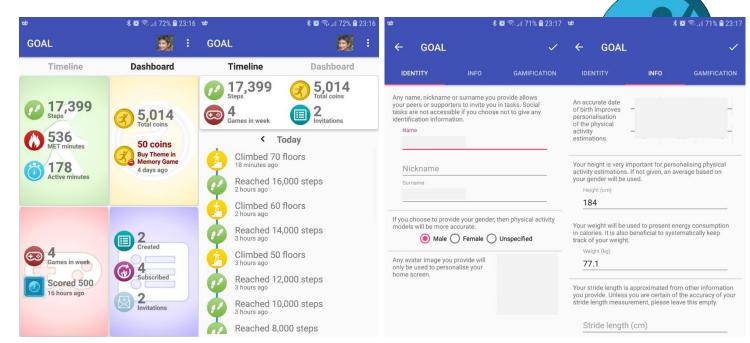


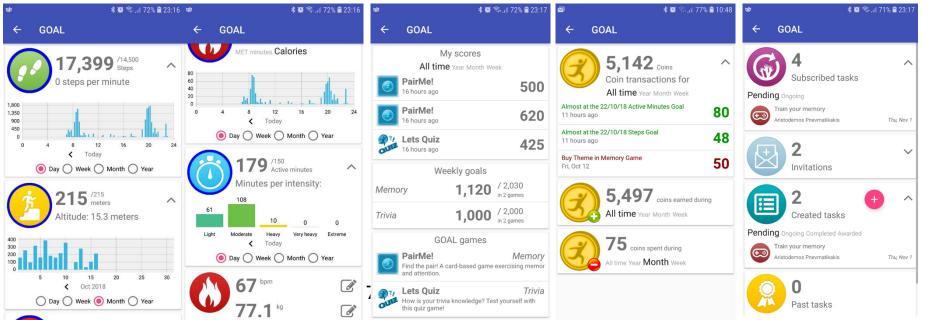
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Main GOAL App

https://play.google.com/store/apps/details?id=gr.ait.msa.goalmainapp









Cognitive games

https://play.google.com/store/apps/details?id=gr.msa.ait.pairMe



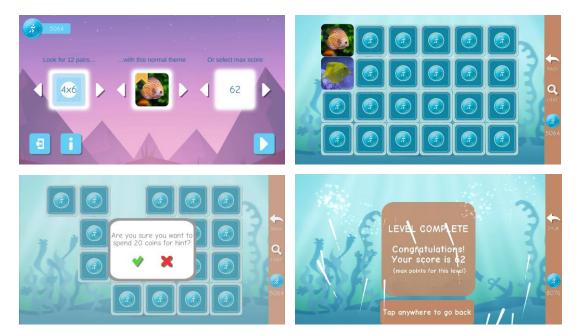
Marilena Tsiakalou Puzzle

3 PEGI 3

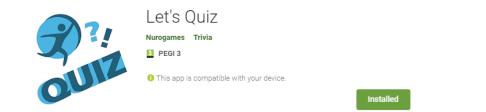
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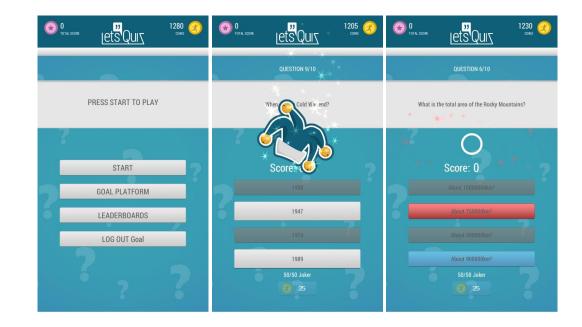


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https://play.google.com/store/apps/details?id=com.nurogames.letsquiz



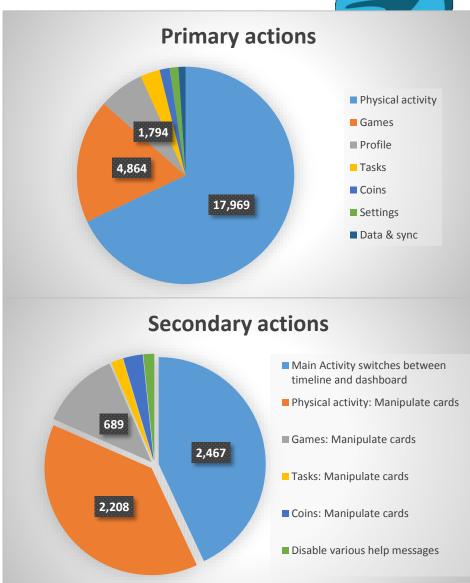






Evaluating GOAL

- 45 users
- 6.5M physical records submitted
- In 2,140 active hours
 - 10M steps walked
 - 80k meters climbed
 - 168k MET-minutes burned
- In 3k game sessions played
 - 216k score accumulated
- 97k UI interactions registered the past 2 weeks





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Attracting developers



Why a gaming company should be interested in GOAL?

- GOAL facilitates penetration into a new market, with many users at least in Europe: the techaware elderly.
- Benefit from new funding schemes
 - Real money offered in exchange for spent GOAL coins
 - Not just from the player (traditional source)
 - But also from local authorities and health insurance systems (public and private companies)

What does GOAL do to facilitate the work of developers in the interested companies?

- Clear way to integrate to GOAL via its rich API and accurate documentation
- Concise form to extract the info GOAL needs to handle the scores of the game



Thank you!







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Motivating a healthier lifestyle The technology viewpoint

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Scope



- What
 - Exercise body and mind
 - Interact with others & affect their lifestyle
- How
 - HW & SW needs



Exercise body & mind

- Originally improve & then maintain performance
 - Following personalized training programmes
 - Playing cognitive games
- Needs
 - Engaging games
 - Physical & games' activity monitoring
 - Personalised (realistic) goal setting
 - Feedback & rewards





Interact with others

- Affect others & allow them to affect you
 - Motivation by peers
- Needs
 - Social tools: friends, followers, competitions
 - Gamification layer for progress monitoring





- Physical activity monitoring
 - Accelerometer, barometer, GPS
- Wearables
 - Activity bands
 - Perfect form factor
 - Good battery life
 - Not owner of data, need to get them from servers at later time, no real-time feedback
 - Smartphone
 - Pocket...
 - Good battery life
 - Owner of data, available immediately
 - Smartwatch/smartphone combination
 - Perfect from factor
 - Medium battery life
 - Owner of data, own SW partitioned between smartwatch/smartphone, data available once the two are communicating



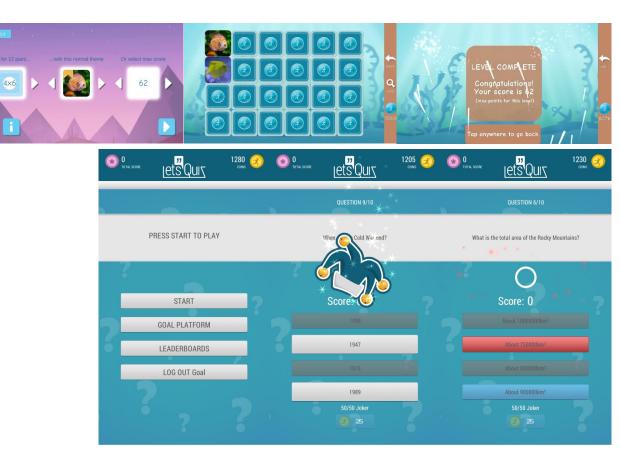
- Physical & games' activity monitoring
 - Collect data
 - Physical activity
 - Games played
 - Data from peers
 - Process sensor data
 - Steps, speed, physical activity recognition, energy expenditure
 - Present data
 - Indicators, graphs
 - UI complexity needs to vary to address different user groups







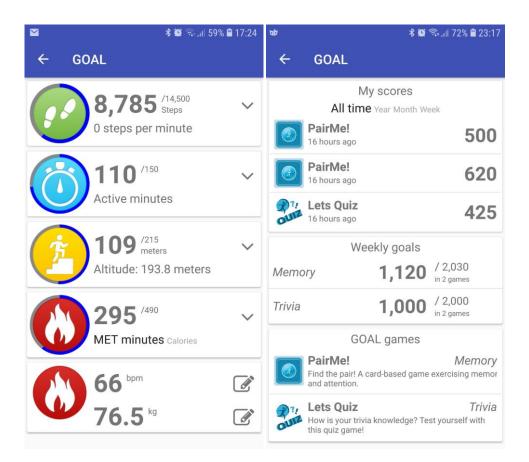
- Engaging games
 - Simple games from developers of the system
 - Proven solutions: Puzzle games, number games...
 - Involve game studios
 - Once a user base is established, offering penetration to new markets
 - Benefit from new funding schemes
 - Not just payed by the player (traditional source)
 - But also from local authorities and health insurance systems (public and private companies)





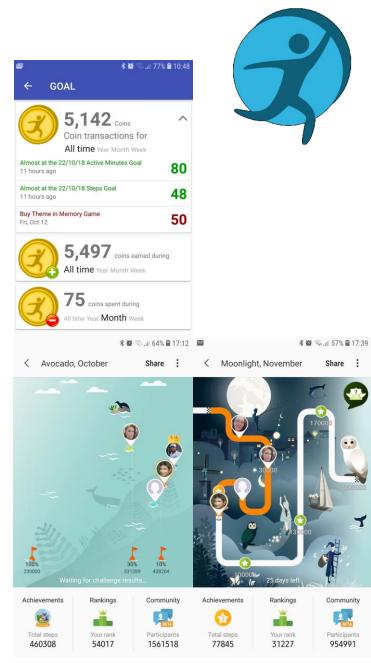
- Personalised goal setting
 - Collect past achievements from user but also user peers
 - Decide if user needs to be motivated to improve or to maintain current level
 - Provide and present goals and progress at them







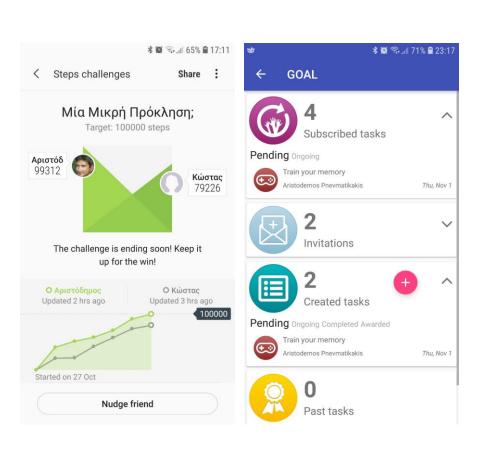
- Feedback & rewards
 - Individual progress
 - Gamification layer for progress monitoring
 - Virtual rewards
 - Badges offering recognition amongst peers
 - Coins earned, to be spent in other aspects of the system
 - Actual rewards
 - Negotiable with 3rd parties once user base is established
 - Within families





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- Social tools
 - Connecting with users
 - Challenging users
 - Tasks monitored by the system (physical & cognitive achievements)
 - Tasks monitored by users (come to visit, wash the dishes...)







Thank you!







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