BudapestGO: Small step or giant leap in the digitalisation of Budapest's mobility services?

Bence Nagy 30.11.2022.





BKK had apps only for journey planning in 2021, and has experienced an unsuccessful e-ticketing project





BKK has faced several challenges during strategic planning



1 Scarcity in resources	 Revenues of BKK has decreased by ~35% (-25.5 bn HUF) due to pandemic in 2020, while no significant cost cutting is possible, level of sales still not reached pre-covid level No extra subsidization from Budapest EU funds are not available / only in long term
	 Clients Owner (Budapest)
2 Time pressure	 Competitors BKK - biggest potential for client impact Long procurement process

Existing vendor contracts, 3rd party constrains •



• We have to sell our products via National Mobile Payment Platform

- Dependency, less flexible, unique developments are slower
- 5% (!) commission (out of which 2,5% goes to the sales platform)
- No clear legal environment high level of uncertainty
- QR code reading top 3 client complaint

BKK decided to develop an integrated mobile app with an agile approach, in several phases



1 Not hardware based but mobile	 Infrastructure-heavy projects tend to be long & requires enormous financial need Technology development enables us to rely on mobile Once renewed, we moved the infrastructure to cloud
2 Integrated solution	 We don't want to have one more app rather one-stop-shop approach: client should be able to manage all his/her public transport related issues Customer experience & needs Current client base should be utilized
3 "Agile" approach	 Ultimate goal: enable clients to use new functions as soon as possible Long projects tend to have bigger delays and budget overspending More phases, step-by-step approach – moderate timing, sprints (1-2 months) "Try-test-learn" approach

• Rigid public procurement processes obstructs this solution

The journey planner app of Budapest was renewed in 1 year and introduction of new functions are still ongoing





• Strategy review

- Strategy roadmap
- Technical specification
- Procurement, contracting
- Migrating to cloud-base infrastructure
- Integrating HÉV (suburban railways) & MÁV (interurban railways)
- Other refinements

- New functions
 - Mobile ticketing
- Integrating traffic changes
- Renewing journey planning
- Totally renewed UX/UI
- Rebranding

- Developing in more phases, continuously
- 1) Mobile ticketing (buying and validating)
- 2) Private & public sector
- 3) Shared mobility providers
- 4) Travellers with special needs
- 5) Seamless, personalized UX

Main steps

BudapestGO is an integrated mobile app (trip planning – mobile ticketing – current traffic information) for public transportation





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Mobile ticketing





Traffic changes



The new app is more than successful: activity doubled – tripled, ~900k active monthly users and 500k ticket buyers in 9 months





1,9 mn downloaders
~900k active monthly users
~730k registrated users
~500k ticket buyers



3,7 mn ticket & passes**2,4 mn** single ticket



25+ millionJourney planning3 mn monthly

Active monthly users¹ of BudapestGO vs FUTÁR ('21 Sept – '22 Oct)



of journey plannings in BudapestGO vs FUTÁR ('21 Sept – '22 Oct)



1: users having at least 1 interaction in BudapestGO in the given month

15% of total revenue of BKK already steams from BudapestGO, and we became leaders in the mobile ticketing market only in 1 month



BudapestGO has become an undisputable market leader in mobile ticketing market (60%+ market share)

Thanks to BudapestGO mobile ticket share in BKK's revnue has almost doubled



	2022. February	2022. October
Mobile ticketing / Total revenue (%)	13%	22,6%
BudapestGO / total revenue (%)	3,4%	14,7%
BudapestGO / Mobile ticketing (%)	26%	65%

Our goal is to develop a customer-friendly and smart app which serves Budapest and its commuter belt, integrates MaaS providers





Lessons learned



×	Agile vs waterfall approach	 Have the vision but go step by step Be as flexible as possible Pilot projects, try-test-learn approach
	Be flexible in procure- ment	 Many times biggest obstacle is the rigid public procurement Avoid long and rigid contracts with fixed functions since you cannot predict customer needs 3rd party integration and good performance requires planning, thus expert pool required Frame contracts
Ω	Dont be afraid of clients	 Pareto+ principle (90/10) - you cannot and shouldn't meet all the expectations Bad reviews / feedbacks help you the most in priorization, still you have to check the big picture
3	Rebranding helps	• Even with a very limited budget much more attention could be attracted
品	Just a small brick in the wall	 We are not a fully digital service provider (infrastructure, other service providers, legislation, etc.) Focus on integrated approach & on the whole process / customer lifecycle to maximize customer experience



	Priorization	 Huge longlist of potential developments What will be the most impactful / useful feature, how to prioritize What is too much (BKK resources, client education)? E.g. introducing EMV & check-in/be-out ticketing parallelly
	Public procure- ment	 Future trends, customer needs cannot be foreseen easily, customer needs rapidly change Public procurements tend to be long & rigid process, doesn't support agile approach, flexibility How to be flexible in public procurements & work with 3rd party service providers?
	Integrating public travel & micromo- bility players	 Many providers in Budapest commuter belt, lack of clear structure and authority Unclear ticket system for many users How to integrate several smaller & not important players in journey planning efficiently? Is mobile ticketing / direct link enough or seamless ticketing systems needed which can be integrated?
	How to migrate motorists	 Biggest challenge for Budapest (+30% in last 10 years) What digital value propositions attracts people to use public transport instead of cars? E.g. MaaS / ticketing / motorists functions (parking, car sharing, navigation) / rewarding app (separate or fully integrated?)
R	Seamless, proactive UX	 More data, more functions, performance is a key issue Personalization is essential to filter "noise" from user and educate them effectively Predictive instead of reactive functions (How to think ahead of customers?)

Thank you for your attention!

