Reputation vs Selection Effects in Markets with Informational Asymmetries

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Abstract

In markets with asymmetric information between sellers and buyers, feedback mechanisms are important to increase market efficiency and reduce the informational disadvantage of buyers. Feedback mechanisms might work because of self-selection of more trustworthy sellers into markets with such mechanisms or because of reputational concerns of sellers. In our field experiment, we can disentangle self-selection from reputation effects. Based on 476 taxi rides with four different types of taxis, we can show strong reputation effects on the prices and service quality of drivers, while there is practically no evidence of a self-selection effect. We discuss policy implications of our findings.

Keywords: information asymmetries, reputation mechanisms, selection effects, credence goods, field experiment

JEL classification: C93, D82

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1 Introduction

Informational asymmetries between buyers and sellers prevail in many markets and can, in
the extreme, even lead to complete market breakdown (Akerlof, 1970). Expert profession-
als holding relevant information can cheat their less informed clients, which in turn leads
to clients buying less services or leaving the market altogether. Examples of markets with
asymmetric information abound, including legal services, financial advice, software program-
ming, health care or repair services, and many more (Darby and Karni, 1973; Dulleck and
Kerschbamer, 2006).

Modern technologies, such as rating platforms, promise to alleviate the problems of in-
formational asymmetries. They allow for reputation-building such that trustworthy sellers
can signal their qualities to buyers who then may refrain less from trading than without
such reputation-building platforms. Many apps that match buyers and sellers rely on this
approach to limit the negative effects of sellers’ superior information on the likelihood of
cheating buyers and on overall market efficiency. Yet, despite this, it is a challenge to iden-
tify whether such apps or platforms may improve overall efficiency, and, if so, through which
channel. In fact, there are two potential mechanisms. First, the apps may indeed work be-
cause of their incentives to build up a good reputation. Second, the apps may be considered
as working well because of self-selection. The latter means that more trustworthy sellers
offer their services and products via app, while less trustworthy sellers sell their products
without any devices that allow rating them. Depending upon which mechanism prevails,
different welfare implications and policy conclusions arise. Yet, in a first step it is important
to disentangle both channels, a challenge which is not easy to meet because it is required to
hold one channel constant at a time while varying the other one.

In this paper, we present a field experiment that meets this condition. We ran our study
in the taxi market in Athens, Greece, exploiting the simultaneous co-existence of various
types of service providers that allow for a clean disentanglement of reputation and selection
effects. We had research assistants take more than 400 taxi rides in Athens. Four RAs would
take four different types of taxis at the same time for the exact same route, recording all
relevant variables (path taken, price, duration, service quality). Three of the types were regular yellow cabs that are driven by drivers who have passed a test and are officially accredited by the city of Athens to do their job. A noteworthy feature of Athens, however, is the fact that yellow cab drivers can not only be hailed on the street, but many of them are also generating rides through an app that is called Beat. So, Beat-drivers can be booked via the app or hailed on the street (in the which case they can still be identified by passengers as Beat-drivers via the app or via stickers on the car). When booked via the app, drivers get a rating from passengers; when hailed on the street, though, they can’t get any rating because they were not booked via Beat. Any systematic difference between these two types of drivers (hailed on the street or booked via the app) can be attributed to reputation effects, since the selection effect is controlled for by only comparing drivers that have already been selected by Beat to work for them. In order to study the selection effect then, we compare unaffiliated yellow cabs (that are not registered on Beat) to Beat-drivers that were hailed in the street without the app. For both groups, reputation does not matter, because they can not be rated (and given that Athens has about 14,000 taxi drivers each taxi ride can practically be considered a single-shot game that rules out reputation-building). At the same time, unaffiliated yellow cab drivers differ from the Beat-drivers by the latter having self-selected for working on a platform that allows the rating of drivers. So, these three different types of taxi drivers allow for a clean identification of the reputation and selection effects of drivers into different suppliers of rides.

We add a fourth type of taxi, namely Uber-drivers. Uber works with its drivers outside the regulated yellow cab market and selects drivers solely based on its own criteria. Given that these drivers have no option to work as a yellow cab driver in case they are expelled from Uber (due to poor ratings) - while Beat-drivers have such an outside option if they missed the threshold rating that Beat requires - this feature suggests that reputation plays an even stronger rule for Uber-drivers than for Beat-drivers. Uber as the fourth type of taxi therefore allows to examine whether different degrees of reputational concerns - which are arguably the strongest for Uber-drivers, weaker for drivers booked by the Beat-app and weakest for yellow cab drivers and Beat-drivers hailed on the street without the app - lead
to different behavior and service quality of taxi drivers.

The results of our field experiment provide strong support for the reputation channel, while there is practically no evidence of self-selection going on. In terms of average price per trip, both yellow cabs and Beat-drivers who were hailed on the street - we call this condition BeatStreet from now on - were about 5-10% more expensive than the two types of drivers with reputational concerns, i.e., Beat-drivers who were booked via the app (referred to as BeatApp henceforth) and Uber-drivers. The latter charge the lowest prices of all when running pairwise comparisons. The higher prices in the first two conditions (yellow cab and BeatStreet) are due to a combination of factors: longer paths, wrong tariffs and (infrequently) more change kept by the driver. Driver ratings by our RAs (not on the platforms) offer an even starker picture. Regular yellow cab drivers are rated as 'good' or 'very good' about 35% of the time. This fraction is not much higher for BeatStreet-drivers (with 36%). Yet, BeatApp-drivers are rated as 'good' or 'very good' in 65% of cases, and Uber-drivers in 80% of the time. The service quality of the first two types of taxis is considered as much worse than the quality of the latter two types of taxis that can be rated by passengers. In particular, yellow cab- and BeatStreet-drivers are more often recorded as behaving or driving badly. So, overall we find no difference in prices charged and service quality of yellow cab and BeatStreet-drivers, which suggests that selection does not play a role in this market with asymmetric information between expert providers (the taxi drivers) and customers (their passengers). BeatApp-drivers perform much better in service quality and weakly better in prices, which indicates that reputation matters. Even more so, it matters most for Uber-drivers (who have no option of working as yellow cab- or Beat-driver), as they show clearly the best service quality. Their prices are also lowest on average, but that is probably due to Uber’s pricing algorithm, not because of the reputation channel of rating Uber-drivers.

The setting of our field experiment - a taxi market - is a common example of informational asymmetries between sellers and buyers. In such markets, feedback platforms have been shown to enable buyers to find more trustworthy sellers who have not exploited their informational advantage in the past (Bolton et al., 2004, 2013). So, it is known that such platforms matter for building up reputation and increasing market efficiency. Credence goods
markets—like expert services of lawyers, doctors, software programmers, repair specialists, or taxi drivers—are a prominent example of markets with asymmetric information, to the extent that buyers often cannot even judge ex post whether the type of service or good they have received is the one that would have been optimal (Dulleck and Kerschbamer, 2006; Balafoutas and Kerschbamer, 2020). In the first laboratory experiment on credence goods markets, Dulleck et al. (2011) have shown that reputation building significantly lowers overcharging of sellers. In the seminal field experiment in such markets, Schneider (2012) has compared the service quality of car mechanics if they encounter a customer only once vs. if repeat interaction with the same customer is possible. In the latter case, reputational concerns may matter, and Schneider (2012) finds, indeed, a small positive effect of this reputation channel in pricing. Similarly, Rasch and Waibel (2017) have reported that garages closer to highways tend to overcharge more, which they attribute to a higher likelihood of customer visits being just one-off instead of repeated. Kerschbamer et al. (2019) have found that repair shops with better ratings on internet platform charge on average lower prices for computer repairs. To our knowledge, none of these studies has been interested in disentangling reputation effects from self-selection effects with respect to apps that allow for the rating of sellers.1

Our paper is also related to the literature on the selection of professionals into specific branches of an economy. Most closely related are papers that study how social preferences relate to professional choices, because social preferences are also relevant for sellers’ behavior in markets with asymmetric information (Kerschbamer et al., 2017). For example, Fisman et al. (2015) find that student subjects who focus on efficiency in experimental distribution games are more likely to choose employment in the private sector, while subjects who focus on equality are more likely to search for jobs in the non-profit sector. Friebel et al. (2019) compare behavior in an experimental trust game of police applicants (when they submit their application) and a sample of high school students in a similar age cohort. They find

1The first field experiment on the determinants of cheating in taxi rides was done by Balafoutas et al. (2013). They studied whether a taxi driver’s overcharging and the extent of detours depend on a passenger’s presumed familiarity with the city and the tariff system. Their finding was a resounding yes. Yet, their paper does not address reputation or self-selection effects in this market.
that the former group is more trusting and trustworthy than the latter group. Egan et al. (2019) provide evidence that there is self-selection of financial professionals with fraudulent records into companies with larger shares of employees with a similar history of misconduct. Gill et al. (2022) show that students who are less trustworthy in an experimental trust game are more likely to find their first job after graduation in the finance industry than students with higher levels of trustworthiness. In our paper, we are not interested in who is selecting to become a taxi driver (and what their personal or demographic characteristics might be). Rather, we want to study whether taxi drivers’ self-selection into offering their services via an app with a rating system (Beat) matters for their provision behavior with respect to price and service when driving passengers from one place to another. So, we are interested in the selection into an environment where reputation can be built up, an issue which is of no concern to the papers discussed in this paragraph.

The remainder of the paper is organized as follows. Section 2 introduces the experimental design and our expectations. Section 3 describes the main results. Section 4 concludes.

2 Experimental design and expectations

For our field study, we hired four research assistants (blind to our research question and hypotheses) who were always simultaneously taking taxi rides from the same starting point to a particular destination. Together, they were asked to hail a yellow cab and a Beat-driver (BeatStreet), and book a Beat-driver (BeatApp) and a Uber-driver via the corresponding apps. Each route was then taken in four different taxis at practically the same time (to control for traffic and weather conditions). We call this set of four rides a quadruple.

We instructed our RAs to first use the Beat app to identify the location of Beat drivers in their close vicinity. One of them was then instructed to look for a Beat-driver in the streets (using this information but also looking at whether the driver had the app in use, or the company sticker on the side of the car), while another RA booked a Beat-driver via the app. A third RA hailed a yellow cab on the street, and a fourth RA booked a Uber-driver via the company’s app. The order in which the RAs chose a particular taxi was changed
from quadruple to quadruple. In a few cases, it was difficult to complete a quadruple in the intended way, in which situation the remaining RA was asked to just take any other taxi to get to the destination (where the next quadruple would start). This explains why we don’t have the exact same number of rides for each of the four taxi types.\(^2\)

While in the car, the RAs were instructed to state their destination and always add the following statement: 'I have never been there, do you know where that is?'. This design choice corresponds to the "local-stranger" condition in Balafoutas et al. (2013), which was intended to make sure that drivers perceive the passenger to be less informed than they are (which is a necessary precondition to call the service a credence good). The assistants recorded the licence plate number (after arriving at the destination in order to control for multiple rides with the same drivers, which never happened), the estimated age of the driver and the start and end location. Since we also wanted to take account of service and driving quality, we asked the RAs to explicitly record occurrences of bad actions (crossing a red light, overtaking from the right, smoking in the car, smell of smoke in the car, texting, talking on a mobile phone, double hire, other) and of positive actions (using a GPS, asking about a preferred route, asking about preferred radio stations, asking about car temperature, other). In addition to that, RAs had to rate the state of the car, the overall service provided by the driver and note down comments or any other extraordinary things that might happen.\(^3\) Our RAs were all young (around 24) and female.

We chose a variety of routes, both in the center of the city and in the suburbs, including several metro stations, the main railway station, the port, a hotel, a well-known private university and a luxury shopping center (for a detailed list, see appendix A). The average route length was 10.7 km and duration 15.7 minutes, with 95% of the routes in the range of 2 to 21 km, respectively from 9 to 27 minutes. In total, we collected data for 476 rides, from 20 December 2017 until 28 March 2018, as Table I shows. This table also summarizes the characteristics of the four different taxi types and a few descriptive statistics about drivers.

\(^2\)Looking at perfect quadruples, we have 93.

\(^3\)A somewhat typical positive comment would be 'had bottles of water at every seat', or 'offered me candy'. A typical negative comment was 'nervous and bad driving' or 'bad smell'.
To form predictions about expected results, it seems straightforward to assume that drivers care primarily about their revenues through charging customers. Yet, those whose services are rated on a platform (i.e., those drivers that have been booked via Uber or the Beat-app) care also about staying with their rating above the threshold, the violation of which would lead to expulsion from the platform. To meet this criterion, drivers need to consider that passengers care about the price charged\(^4\) and the service provided. Worse service and higher prices are likely to reduce the rating a driver will get from a passenger\(^5\), for which reason we expect drivers who get rated to provide on average better service and lower prices (by taking less detours or avoid using wrong tariffs and add-on surcharges). While for BeatApp-drivers, the price is determined by the driver’s choice, for Uber-drivers this is taken care of by the platform’s algorithm – where relatively cheap prices are a means of building up a reputation for inexpensive rides. Regarding service quality, it can be expected that Uber-drivers provide the best service because their reputational concerns are the strongest among all taxis in a quadruple. This is the case because Uber-drivers have a lower outside option than BeatApp-drivers. The latter do have a licence to work as a regular yellow cab driver, but the former don’t. For this reason, Uber-drivers have a lower continuation payoff in case of being expelled from the platform than a BeatApp-driver, which makes it more important for them to offer good service to get a good rating that keeps them above the required threshold. When comparing yellow cab drivers to BeatStreet-drivers–i.e., drivers hailed on the street without using the Beat-app, but who are registered on the app–their reputational concerns are very low in both cases, since both are not rated for that specific ride, for which reason we expect no difference in prices and services of these two types of drivers.

\(^4\)Passengers may also care about the duration of a trip, yet time and price are highly correlated (\(\rho = 0.56, p\text{-value} < 0.001\)), so we ignore considerations of time here.

\(^5\)Kerschbamer et al. (2019) find for computer repair shops an inverse relationship between prices charged and stars rated on rating platforms, which supports this expectation.
3 Results

3.1 Descriptives

We begin our presentation of results by providing descriptive statistics in Table II. In the first row, we show average prices, i.e., the fair paid by our RAs, contingent on the type of taxi taken. We see that Uber charges the lowest prices on average (9.9 Euro), followed by BeatApp (10.7 Euro). Yellow cabs charge on average 11.1 and BeatStreet 11.0 Euro. This ordering is compatible with our reasoning about what to expect. A Jonckheere-test for ordered alternatives (with yellow cab = BeatStreet = BeatApp = Uber) provides $p < 0.01$. In pairwise comparisons, we find that Uber charges significantly lower prices than each of the other three taxi types (Wilcoxon test yields $p = 0.05$).

In the line below the average fare, we present in Table II the average experience rating by our RAs for the drivers. This rating ranged from 1 for very bad to 5 for very good. Yellow cabs and BeatStreet perform worst, with an average ranking of around 3.2. BeatApp performs already better, consistent with the effects of reputational concerns, with an average of 3.66 which is significantly better than Yellow cab and BeatStreet ($p < 0.05$ in both comparisons; Wilcoxon test). Uber performs best with an average rating of 3.99, which is better than any of the other ratings ($p < 0.05$ in each pairwise comparison; Wilcoxon test). A Jonckheere-test confirms the significant order yellow cab $\leq$ BeatStreet $\leq$ BeatApp $\leq$ Uber with $p < 0.01$. Looking at the relative frequency of ratings from 1 to 5 (in the middle part
Table II: Summary of Prices and Service Quality

<table>
<thead>
<tr>
<th></th>
<th>Yellow</th>
<th>BeatStreet</th>
<th>BeatApp</th>
<th>Uber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean Fare Paid</td>
<td>11.09</td>
<td>11.00</td>
<td>10.72</td>
<td>9.92</td>
</tr>
<tr>
<td>Mean Experience Rating (1:very bad)</td>
<td>3.16</td>
<td>3.24</td>
<td>3.64</td>
<td>3.94</td>
</tr>
<tr>
<td>Experience Rating (in percent):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very Good</td>
<td>2.63</td>
<td>3.15</td>
<td>6.78</td>
<td>16.67</td>
</tr>
<tr>
<td>Good</td>
<td>34.21</td>
<td>34.65</td>
<td>55.93</td>
<td>60.83</td>
</tr>
<tr>
<td>Average</td>
<td>43.86</td>
<td>47.24</td>
<td>32.2</td>
<td>22.5</td>
</tr>
<tr>
<td>Bad</td>
<td>14.91</td>
<td>13.39</td>
<td>5.08</td>
<td>0</td>
</tr>
<tr>
<td>Very bad</td>
<td>4.39</td>
<td>1.57</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Mean Bad Actions</td>
<td>0.91</td>
<td>0.77</td>
<td>0.48</td>
<td>0.23</td>
</tr>
<tr>
<td>Mean Good Actions</td>
<td>0.39</td>
<td>0.55</td>
<td>0.77</td>
<td>0.93</td>
</tr>
</tbody>
</table>

Of Table II, we note large differences in the extremes: Uber is never ranked as very bad or bad, but it is judged as very good in 19.5% of the rides, while yellow cabs are bad or very bad in 20.6% and very good in only 3.9% of the cases. The distribution for BeatStreet and BeatApp lies in between yellow cab and Uber.

At the bottom of Table II we present averages for bad actions and good actions of drivers with respect to driving and service quality. We add up the RAs recording of bad actions (crossing a red light, overtaking from the right, smoking in the car, smell of smoke in the car, texting, talking on a mobile phone, double hire, other bad action) and positive actions or gestures (using a GPS, asking about a preferred route, asking about preferred radio stations, asking about car temperature, other good action). We aggregate all good actions in one index and the bad ones in another, with equal weights (of 1) for all items, except for crossing red lights (weight=2) and double hiring (weight=2). The exception is motivated by the former capturing dangerous actions that might threaten the passenger’s safety, and the latter being one of the main reasons why potential passengers might not enter a taxi even after it had stopped to pick them up. We had run a survey among 425 taxi customers in 2021 where about one fourth of survey participants (118 out of 425) indicated that it had happened.
to them that they did not board a taxi when it had stopped for them, and they reported
rudeness of the driver and other people being already in the taxi as the major reasons to do
so.

As with the overall customer experience, the relative frequency of negative actions con-
forms with the expected ranking. There is a large and significant difference between Uber
and BeatApp (Wilcoxon test yields $p < 0.01$), BeatApp and BeatStreet ($p < 0.01$), but not
BeatStreet and Yellow ($p = 0.36$). In line with this observation, the median negative act is
0 for drivers booked through an app (either Beat or Uber), and 1 for divers hailed on the
street. Regarding positive actions, the ranking is exactly the inverse. We find significant
differences between all taxi types, except BeatStreet and Yellow ($p = 0.055$).

3.2 Regressions

Next we present several regressions that take account of the multiplicity of routes, the
assistants’ IDs, route length and duration and of the type of taxi used within a quadruple.
In the first column of Table III we report the regression for the fare charged by a driver. As
to be expected, this fare is larger if the distance and the trip are longer. The IDs for our
RAs are insignificant, as they should be due to the randomizing of RAs into different rides in
a quadruple. Among the dummies for the different types of taxis-yellow cab is taken as the
benchmark and thus omitted—we see a significantly negative coefficient for Uber. BeatStreet
and BeatApp are not significantly different from yellow cab. When comparing BeatStreet to
BeatApp, we notice that prices in BeatApp are weakly significantly lower than in BeatStreet
($p < 0.1$).

In the second column of Table III, we look at service quality by regressing the passenger’s
experience rating on the variables already used in column 1. We note two assistants to be
significantly negative, which possibly means they were slightly stricter in their evaluations.
Trip distance and duration are not significant. Yet, experience ratings differ across taxi
types. BeatApp and Uber are now both highly significant.$^6$ BeatApp trips are rated half a

$^6$Restricting the sample to complete sessions (i.e. those where the RAs managed to find one of each four
taxi types) and correcting the standard errors for clustering at the session level, yields the same significance.
Table III: Regression results. One star denotes significance at 5%, two stars at 1%. Controls for driver age/sex are included along with dummies for the assistants, but not presented in the table.

unit better than yellow cabs, and they are also better rated than BeatStreet rides \((p < 0.05)\). Uber-rides are ranked best, with a coefficient of 0.77. Given that the scale ranges from 1 to 5, this coefficient indicates that rides with Uber-drivers are rated almost 20% better than rides with yellow cabs and BeatStreet.

Overall, the evidence on prices and service quality match our expectations fairly well, meaning that taxi rides where drivers are going to be rated (BeatApp and Uber) are on average cheaper and provide better service than rides where reputational concerns do not play a role. For self-selection, we do not see any obvious evidence, because we consistently find that yellow cab drivers and BeatStreet-drivers perform equally (bad).

4 Conclusion

Rating platforms persist in many different markets, covering, among others, holiday room bookings, professional expert services (e.g., medical, legal advice), software programming or repair shops. Such platforms are intended to improve market efficiency and alleviate informational asymmetries between sellers and buyers (Bolton et al., 2004, 2013). The potential effects of providing a service or selling a good over a platform may arise because of two effects: a selection effect—according to which different types of sellers self-select into the platform—and a reputation effect—which means that behavior of sellers changes in response
to their intention to build up a good reputation as a valuable means to attract also future
customers (Grosskopf and Sarin, 2010; Huck et al., 2016). Disentangling these two effects
to understand why rating platforms change the behavior of sellers is difficult because it
requires holding one factor (either reputation or selection) constant while varying the other.
We have exploited a unique setting which makes it possible, however, to distinguish between
reputation and self-selection effect in a typical market with asymmetric information between
buyers and sellers, namely the market for taxi rides.

More precisely, we have run our study in the taxi market in Athens, Greece, where we
used the opportunity of different types of taxis being available at the same time. In addition
to taking rides with traditional yellow cabs, we have used two types of taxis whose drivers
are registered on the platform Beat, but who are at the same time certified (and in this
capacity regulated) yellow cab drivers. One type of Beat-drivers was hailed on the street,
in which case drivers could not be rated; the other type was booked via the app, which
leads to a rating through the passenger. Comparing the latter two types of Beat-drivers
reveals the immediate impact of a reputation building device, i.e., the reputation effect on
drivers’ pricing and service quality. Comparing regular yellow cabs with Beat-drivers hailed
on the street allow examining the self-selection effect. We don’t find any evidence for the
latter–clearly indicating that also drivers booked via the Beat-app are not systematically
different from yellow cab drivers. Yet, as soon as reputation kicks in, behavior of drivers
gets noticeably more customer friendly. Drivers booked via the Beat-app charge (weakly)
lower prices, but in particular they offer clearly better service and drive also more safely than
those two taxi types without a rating opportunity (i.e., yellow cabs and BeatStreet). We
consider these findings as strong evidence that rating platforms (at least in the taxi market)
work mainly through the reputation effect, while self-selection effects seem to be negligible.
By having also Uber-drivers in our set of taxis, we can show that even stronger reputational
concerns–because Uber-drivers have no outside option of working as a yellow cab driver if
they get expelled from the Uber-workforce–lead to even better service quality (and Uber’s
pricing algorithm to the lowest prices on average). Again, this emphasizes the strong effect
of the reputation channel on drivers’ behavior.
Our results have important ramifications for policy making around the world. City administrations contemplating regulation against ride hailing apps have to include in their cost-benefit analysis the fact that there seems to be a substantial welfare increase when reputation platforms are in place, even if the same set of drivers that used to provide their service without an app would be shifting to providing it with a rating app. Apps do not just select the better drivers or, generally speaking, sellers (we see no evidence for this), but rather provide incentives for drivers to show their best side, a side they would not reveal when reputational concerns were absent. In this way, a reputation system does not seem to change the persons and their preferences, but it converts a game between sellers and buyers with no memory into a repeated game with memory, thus drastically changing the behavior of sellers on such markets.
References


A Appendix

A full list of the routes we used follows.

Agia Paraskevi - Maroussi
Acropolis Museum - Larissa Rail Station
Agia Paraskevi - Cholargos (pl Faneromenis)
Caravel - A Paraskevi, St. John
Caravel - Dereee
Cholargos - Larissa station
Constitution - Glyfada, nymphon sq.
Glyfada - Acropolis Museum
Glyfada - Caravel
Golden Hall - Monastiraki
Larissa Station - Philadelphia Maroussi - Dereee
Maroussi - Doukisis Plakentias station
Monastiraki - Glyfada
Monastiraki - Kolonaki
Monastiraki - Piraeus metro station
Philadelphia - Golden Hall
Piraeus - Acropolis Museum
Piraeus - Constitution
Syntagma - Piraeus (old station)
Larissa rail station - Fix
Doukisis Plakentias station - Cholargos, Palamas square