# Digital TV: Public opinion survey

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- Understanding of digital switchover
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## Introduction

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### Background/Objectives

- To provide baseline information on the current awareness of and familiarity with digital standard introduction in 2012 among Croatian population
- To get insight in general attitudes towards new standard and opinion on such policy
- To screen, describe, explore and define current experience with digital signal reception and equipment needed in Croatian households
- To explore future plans and intentions related to obtaining of TV set equipment needed for digital signal reception
- To facilitate integration of results and reporting in order to plan and design information strategies and to make further launching and implementation more efficient

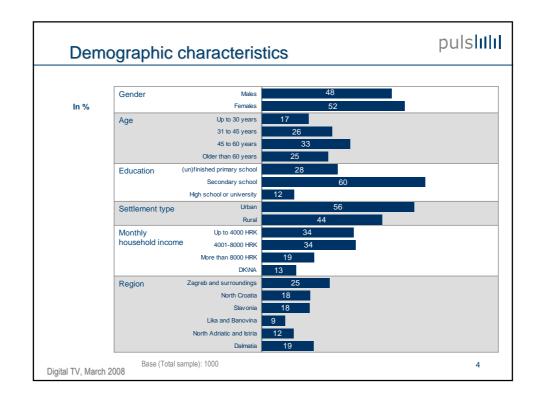
### Methodology

- Data collection method: telephone interviewing (CATI)
- Fieldwork: March 14th till March 17th 2008

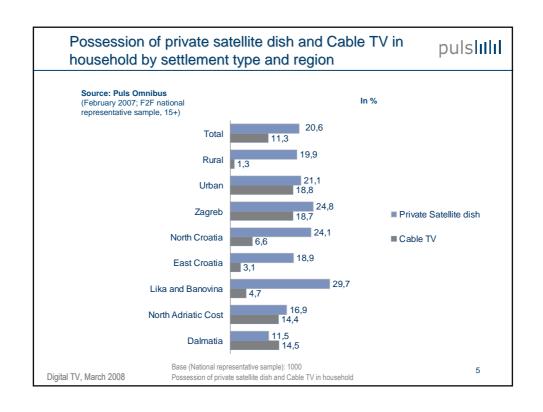
### Sample

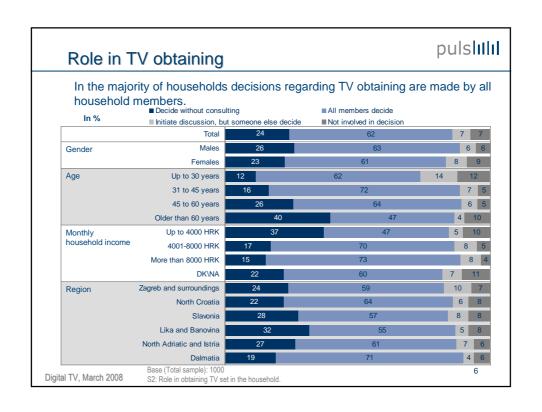
- Sample size: 1000 respondents
- Sample type: national representative, 16 to 85 years of age

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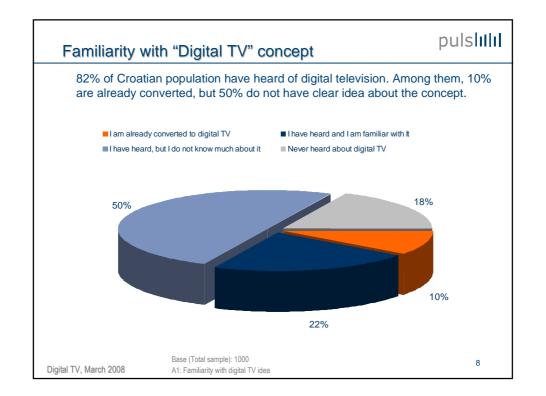




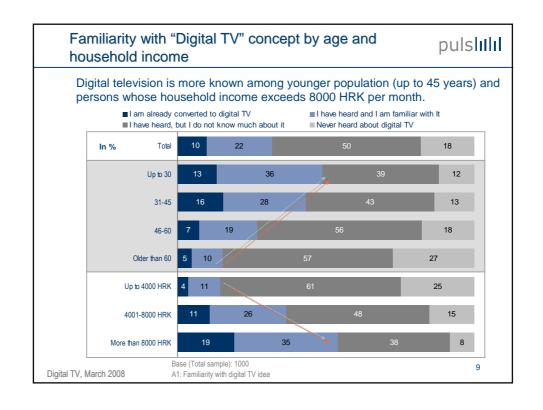
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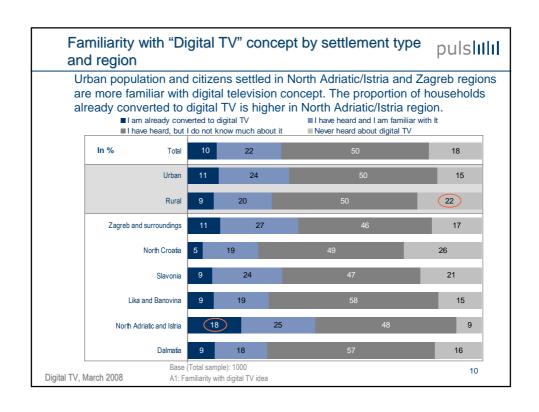
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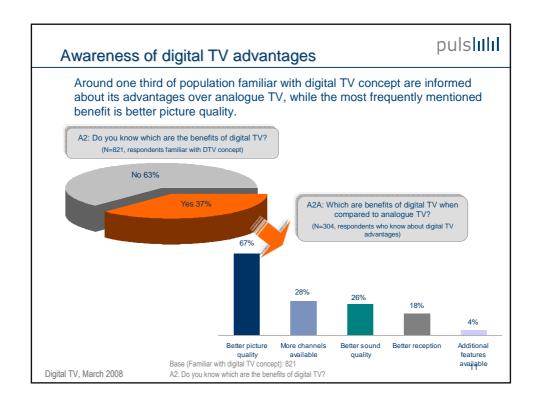


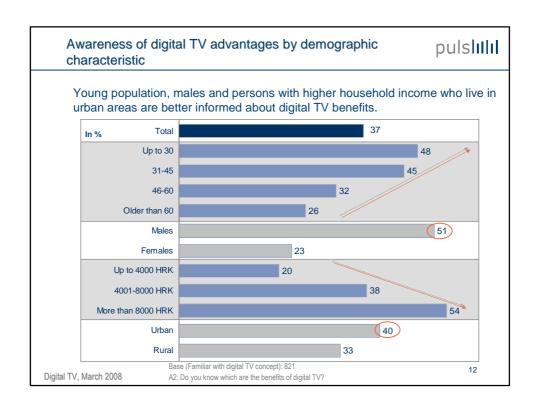




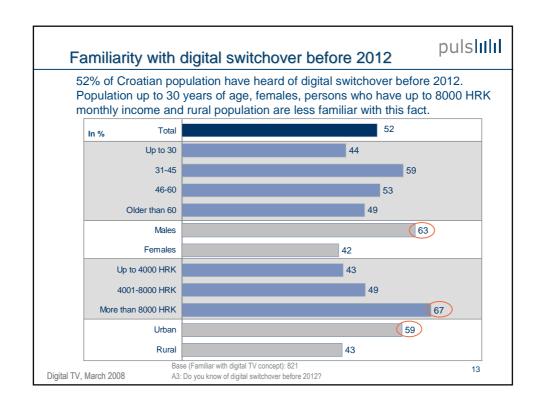


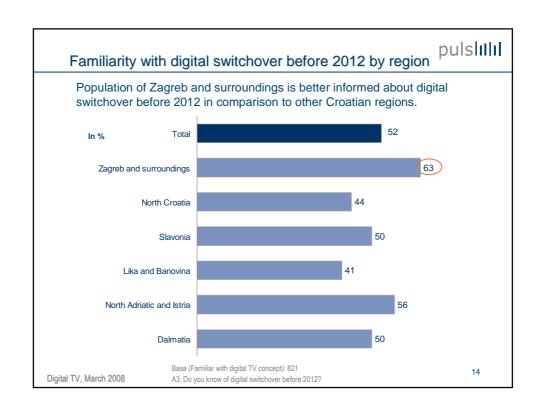




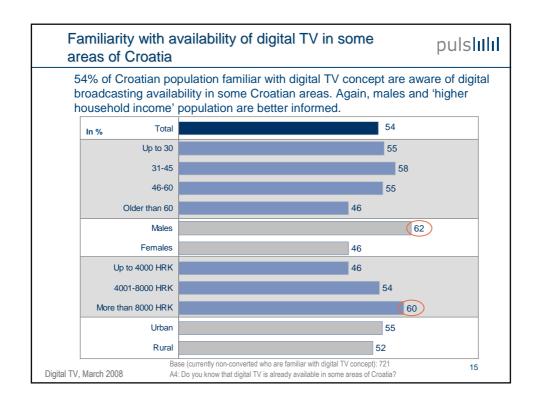


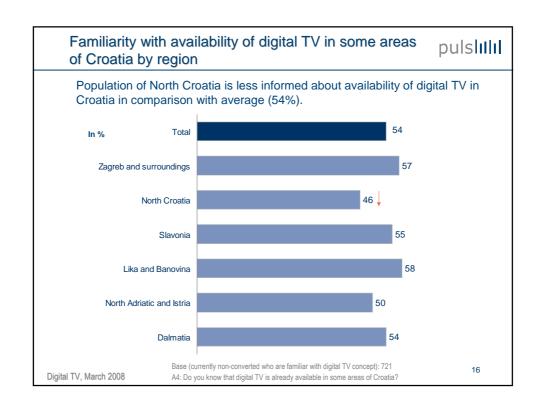




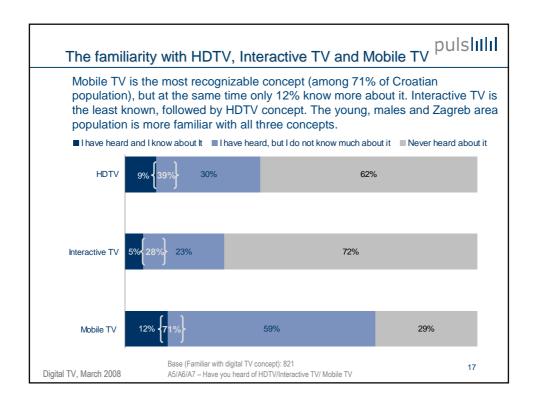






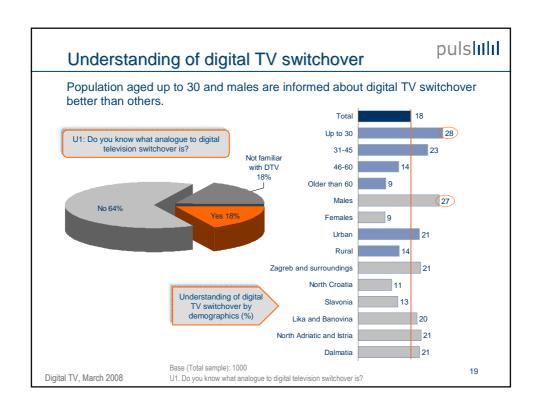


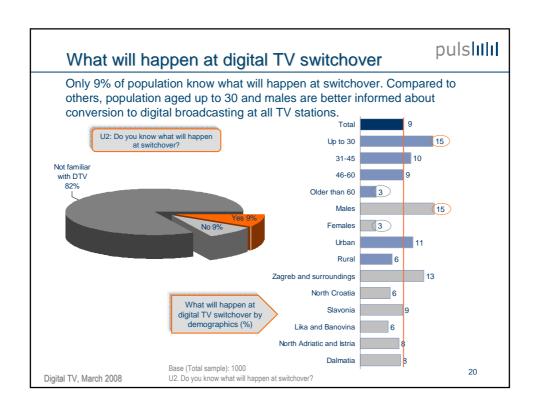




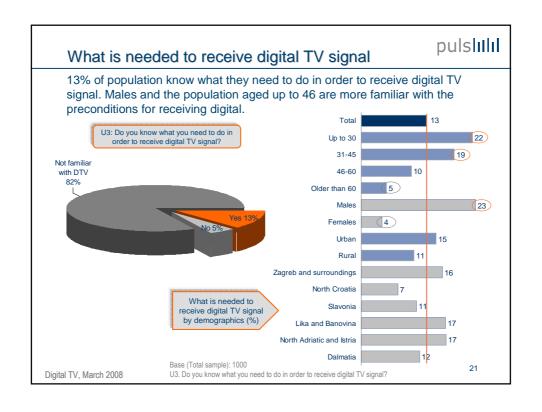
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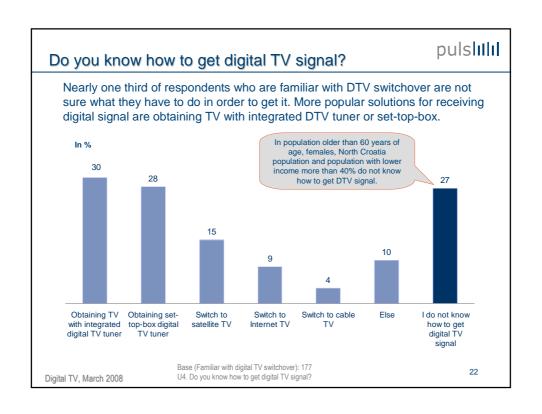




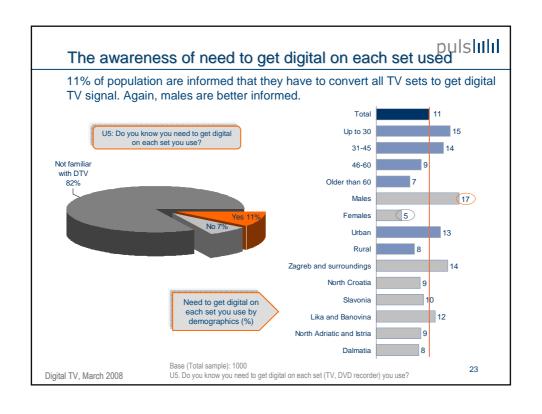


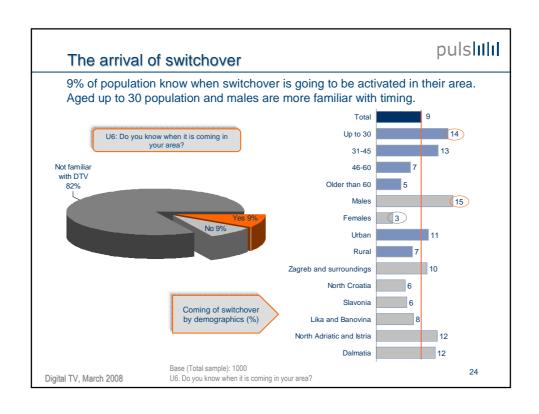




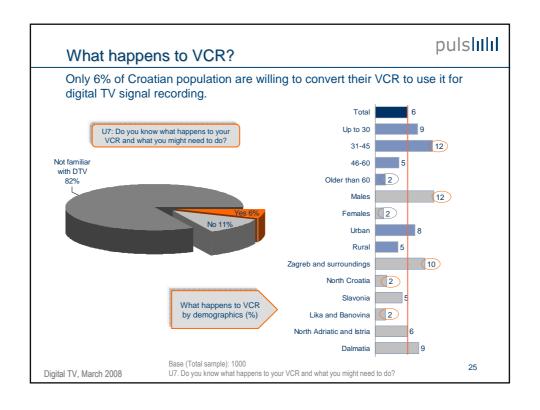






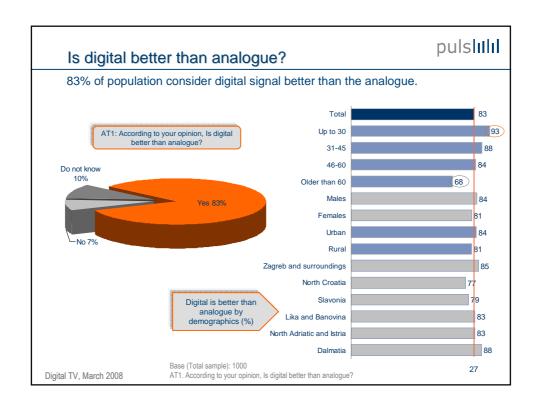


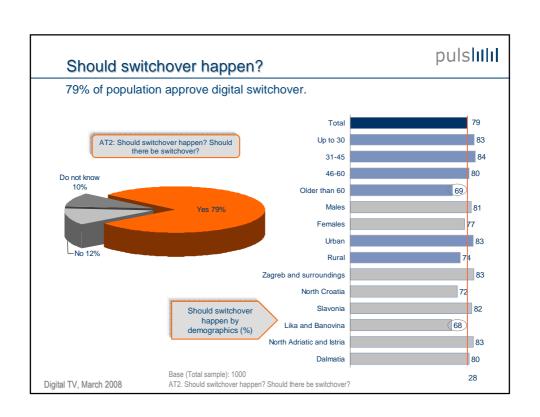




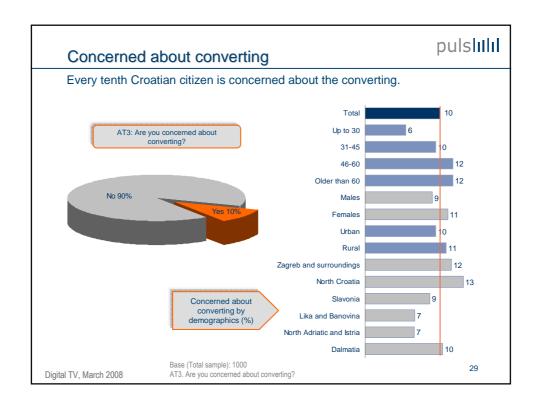
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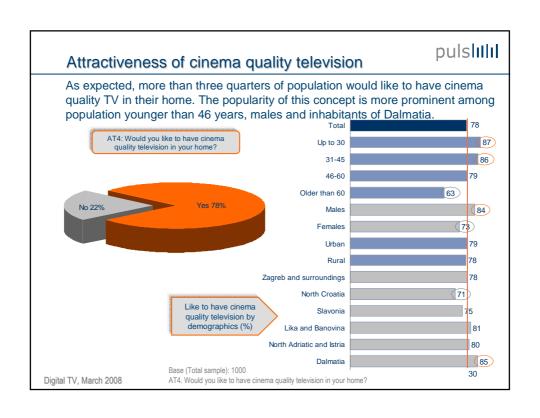




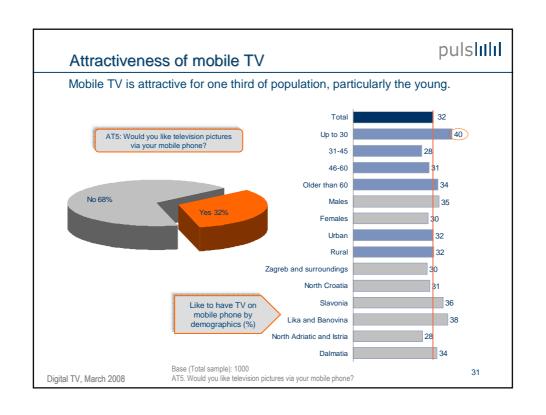


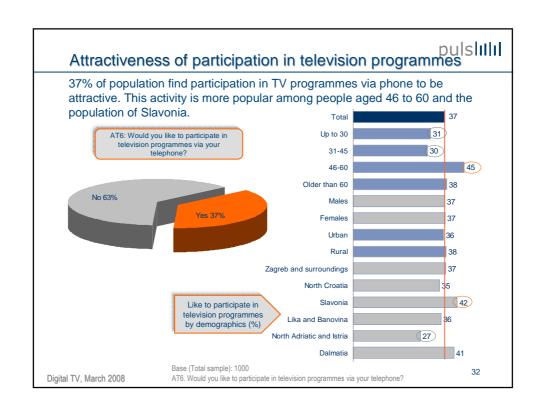










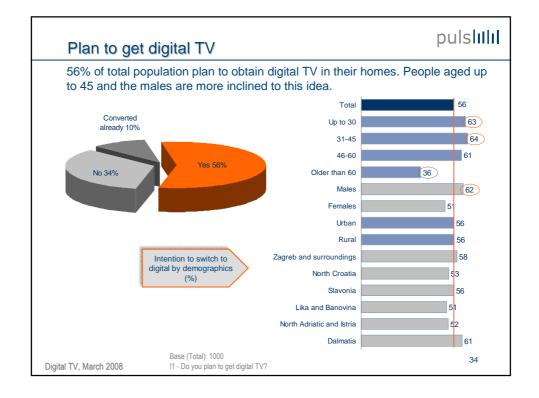




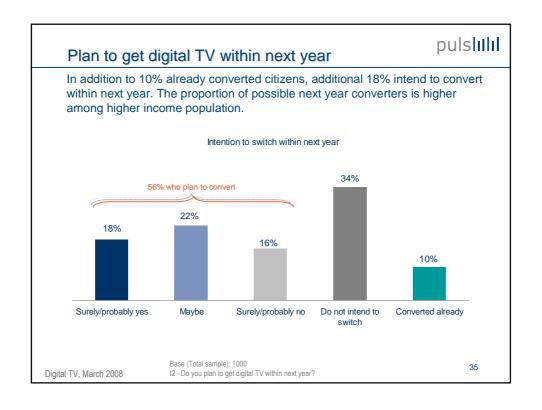
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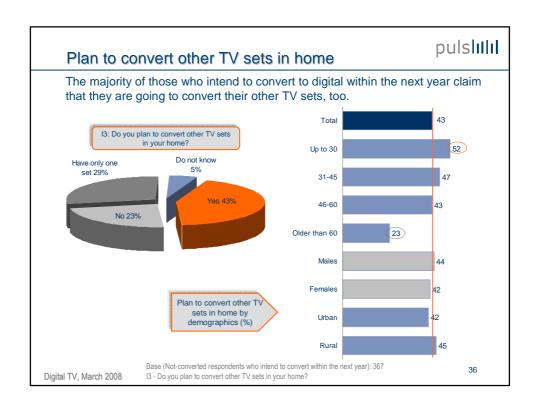
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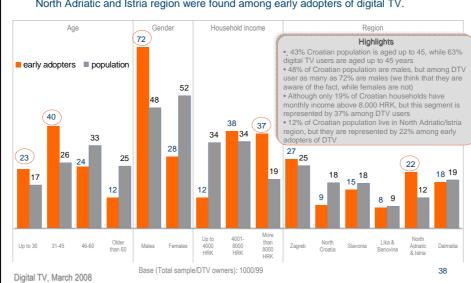
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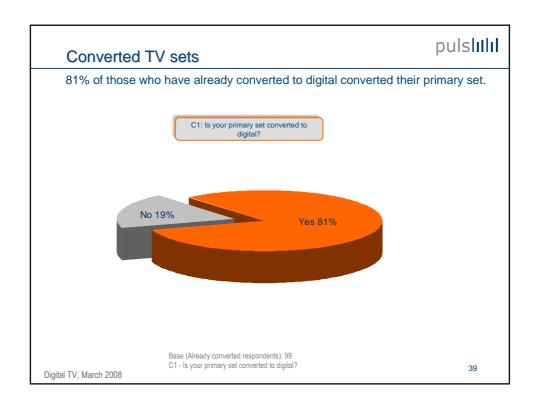
# Comparison of demographic characteristics of population and DTV early adopters

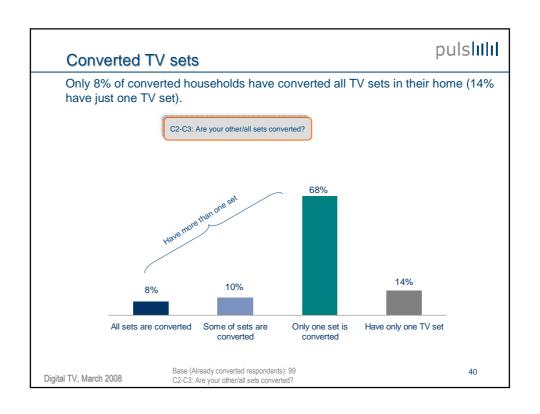
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When compared to population distribution of different demographic segments, proportionally more people aged up to 45 years, males, higher income households, and those living in North Adriatic and Istria region were found among early adopters of digital TV.











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### Conclusions



- 82% of Croatian population have heard of digital television, but 50% are not familiar with the concept. Namely, 18% understand what analogue to digital television switchover really is and only 11% know that they have to prepare all TV sets to get digital TV signal.
- Generally, the awareness of DTV is more present among the young, males and people live in North Adriatic-Istria region. It is not surprising, since the penetration of DTV in North Adriatic-Istria region is higher than in other parts of Croatia (18% in comparison to 10% Croatian average).
- Although the majority of population claims that they have heard of DTV, only 37% know about its benefits, mostly about better picture quality.
- More than a half of those who have heard for DTV, claim that they know about digital switchover announced for 2012, but only 10% of population find switchover disturbing and even less are informed about timing of DTV coming to their area.
- In order to prepare themselves for DTV switchover, the majority plan to obtain TV with integrated DTV tuner or set-top-box, while solutions like cable, satellite or IPTV are less popular.
- Already converted mainly own converted primary set, and only rare among them have converted all TV sets by now.
- It can be concluded that the young, males and population with higher household income are better equipped and prepared to adopt digital TV technology.

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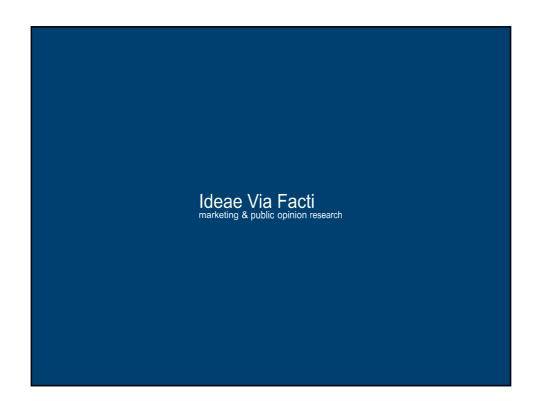
# Recommendations

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- According to this survey results only 10% of Croatian population is converted to digital. Although that fact does not look prominent when compared with advanced market like UK (+ 80% households able to receive digital, either using digital receivers (integrated or external) or via cable, satellite or IPTV), we consider current knowledge about Digital TV switchover satisfactory at the awareness level. In addition, there is a relatively high interest in digital signal using, but when talking about details regarding the issue it is obvious that additional public campaign is needed in order to increase understanding and acceptance in terms of active participation in the process of switching (obtaining and converting devices).
- In spite of relatively low familiarity with DTV concept, and especially DTV switchover coming 2012, attitudes towards digital broadcast launching is generally positive which can be seen from several facts:
  - The vast majority consider that switchover welcome
  - More than 80% of Croatian population consider digital signal better than analogue
  - Nearly 80% would like to have cinema quality TV in their home
  - The majority of currently non-converted population plan to obtain digital TV in their homes, but relatively low proportion plan to do it within the year
- On the other hand, only 6% of Croatian population are informed that they will need to convert their VCRs to digital, around one third are interested in Mobile TV (33%) and similarly the same proportion are interested in interactive TV (37%).
- According to our opinion it would be desirable to:
  - organize promotional campaigns in the media, especially TV campaigns and programs, educational workshops and seminars, roundtables
  - inform about 2012 deadline
  - inform about devices needed explanation of all alternatives in order to enhance choice and reduce financial costs
  - promote digital broadcasting benefits, especially "like a cinema quality" since it seems to have rather high drawing power
  - it would be advisable to support implementation of digital TV through different programs of official subsidies similar to those offered in Istria (within ISTRAdigital project) or in other countries, e.g. Austria

where vouchers for the equipment were given out, too.

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Appendix pulslillil

- · Methodology and Data analysis
- Significance testing legend
- Questionnaire

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# Appendix: Methodology and Data analysis

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### Sampling procedure

- Computer system used for telephone interviewing (CATI) continuously manages the sample allocation, and maintains active control for quota realization in the manner which assures that the results are representative for the targeted population. Representativeness of the sample was granted by twodimensional stratification (two-stage stratification) concerning:
  - 6 traditional regions defined as sum of existing Counties (in that way we assure classification of units of choice concerning principle of exhaustion and elimination)
- Size of settlement (4 sizes: up to 2.000 residents, 2.001-10.000 residents, 10.001 100.000 residents and more then 100.000 residents
- Target person in household (age span 16 to 85 years of age) was choosing by using "last birthday method"
- Main source of information for framing the sample is official results: "Results from Census of Population, Households and Dwellings, 31st March 2001. Central Bureau of Statistics".
- Population coverage: 85 90% of Croatian population aged 16 to 85 (according to our recent data fixed line penetration is between 85 to 90%)
- Response rate: 27%

### Sampling error

 For questions with alternative answers and equal proportions of samples (e.g. 50% respondents uses a service, 50% do not use) on which 1000 respondents has answered, with presumption that distribution of estimators is normal one and with 95% level of confidence, largest margin of error equals 3.2%.

### Weighting procedure

 Due to the smaller discrepancies between sample and population parameters, results were weighted according to age, education and region.

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# Appendix: Significance testing legend

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<u>Significance testing</u> is an important indication when comparing results whether the difference is perhaps due to this random variation or whether it is "significant".

In this report, the results are compared with average results (the score of total sample in particular question) and marked as either significantly higher or lower. For example:

Example Statement

Average	Males	Females
50	62	44

Significantly <u>higher</u> than population result at 95% confidence level



Significantly **lower** than population result at 95% confidence level



Trend of differences (e.g. the young seems to be better informed)

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# Appendix: Questionnaire

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Section	Question	
Awareness.	A1. Have you heard of digital TV? A2. Do you know it will bring better quality and more channels? A3. Do you know of digital switchover before 2012? A4. Do you know that digital TV is already available in some areas of Croatia? A5. Have you heard of High Definition television? A6. Have you heard of interactive television? A7. Have you heard of gital television on mobile phones?	
Understanding.	U1. Do you know what analogue to digital television switchover is? U2. Do you know what will happen at switchover? U3. Do you know what you need to do in order to receive digital TV signal? U4. Do you know how to get digital TV signal? U5. Do you know you need to get digital on each set (TV, DVD recorder) you use? U6. Do you know when it is coming in your area? U7. Do you know what happens to your VCR and what you might need to do?	
Attitudes.	AT1. According to your opinion, is digital better than analogue? AT2. Should switchover happen? Should there be switchover? AT3. Are you concerned about converting? AT4. Would you like to have cinema quality television in your home? AT5. Would you like television pictures via your mobile phone? AT6. Would you like to participate with television programmes via your telephone e.g. by voting in entertainment shou	
Intentions to Convert.	I1. Do you plan to get digital TV? I2. Do you plan to get digital TV within next year? I3. Do you plan to convert other TV sets in your home?	
Converted already.	C1. Is your primary set converted to digital? C2. Are your other sets converted? C3. Are all your sets converted?	
Demographic questions	Role in obtaining TV in HH, Age, Gender, Education, HH income, Settlement size, Settlement type, Region	

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