

#### The mobile digital newspaper Lessons learned an reflections on the 'book business'

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presentation @ Frankfurt - EBF Meeting - October 5, 2006

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The mobile digital newspaper

#### 1. The IBBT

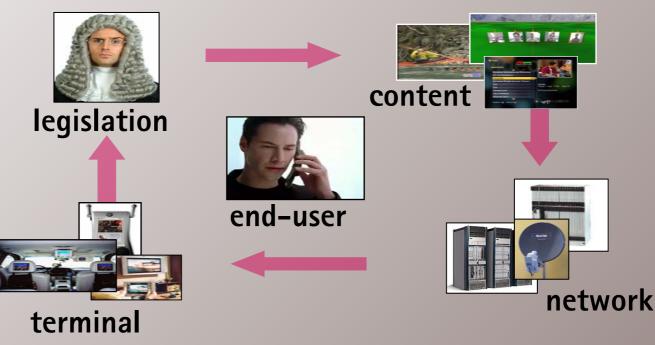
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#### 1. Project Setup – the IBBT

The mobile digital newspaper

# A flemish interdisciplinary research institute with ICT focus, founded in 2004 by the Flemish government





#### 1. Project Setup – the IBBT

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#### Funding: 17 MIO EUR/year

- Virtual structure, cooperates with 14 existing research groups in flemish universities and knowledge centers
- Cooperative model, creating co-funded projects with consortia of complementary companies and organisations
- Research Projects combine technical and nontechnical partners (hospitals, newspapers, broadcasters, IT companies, telecom operators, ... )



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# 2. Project Goals



PHILIPS

De TIJD

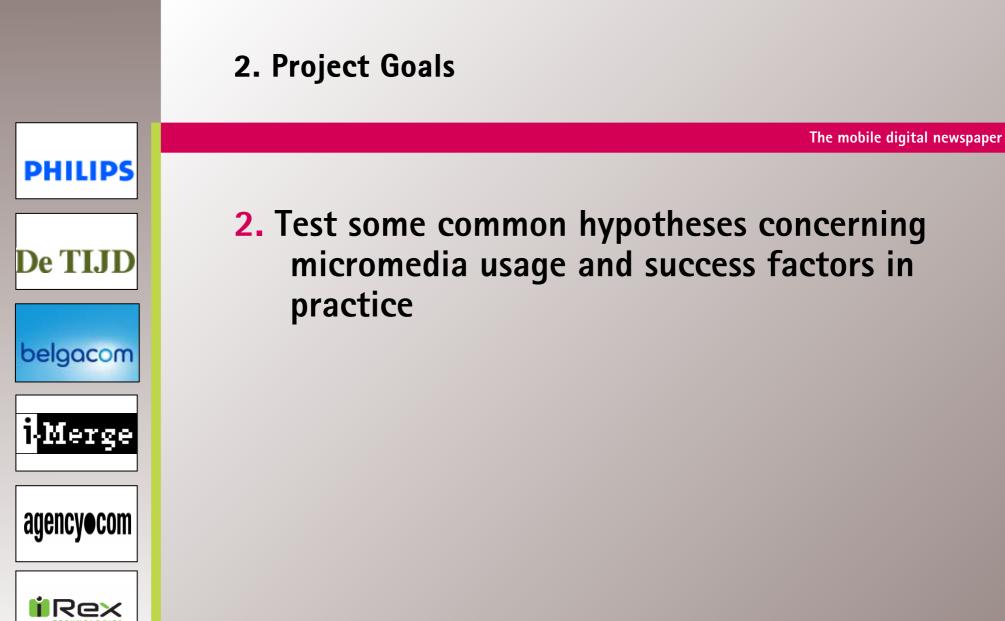
belgacom







- 1. Generate generic knowledge about the potentials of news content on a dedicated electronic reading device, by way of
  - 1. testing a concrete device, the iliad,
  - 2. a concrete content offer, de Tijd,
  - 3. in a concrete living lab context: 200 test users selected
  - 4. in a flemish newspaper setting



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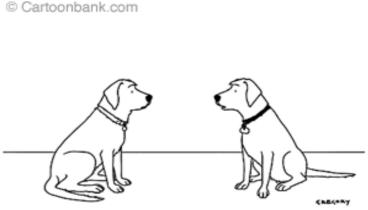
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#### 3. Hip & Hype, Bit & Byte

The mobile digital newspaper

- Journalist: role challenged by community and user contributions
- Evolving from 'lecture' mode to conversation mode
- New media ecology: noone has control
- Journalist as authenticator
  - Thoroughness
  - Accuracy
  - Transparancy
  - Model of Trust



"I had my own blog for a while, but I decided to go back to just pointless, incessant barking."

#### 3. Hip & Hype, Bit & Byte

The mobile digital newspaper

#### Editors

- Webolution: web 2.0 (inversion of control)
- Information becomes increasinly worthless because of its abundance
- Attention becomes a scarce commodity (supply and demand rules remain valid!)
- Value shift: Media 2.0 dominant strategies are based on economies of scale and scope in production, distribution and search
- The user (the reader)
  - Is prosumer
  - Rising consumption of micro-chunks of information (see RSS)
- In the new media world, the love triangle between editor, journalist and reader is based on equal power and mutual and complementary needs



# 3. Other epaper trials?

Project	Where, when?	Who?	Results?	
Les Echos	France, Started recently	Newspaper Les Echos Consulting company Tebaldo	After presenting the prototype, Le Monde, La Parisienne & l'Equipe expressed their interest in trials too en got involved in the research aspects of the project	
The New York Times	USA, To start in a couple of months	NYT & Microsoft	Not yet	
Internatio nal Herald Tribune	Internation al, 2006	IHT (NYT Co)	Not yet	
eNews	Internation al, 06-08	Ifra, 20 major publishing houses, 4 technology developers	Not yet	
Asahi Shimbun	Japan, Since 2000	Newspaper Asahi Shimbun, Sportcontent provider Nikkan, 4 telecom operators	1 million users 20.000 subscriptions for print via mobile new competitors have arisen	
MINDS platform	Germany Since 2005	Partnership between 40 German newspapers and dpa (German press agency)	Introduction cost are low -> easier for papers to start offering online services From 300 to 10.000 users per activity -> little but direct revenues -> mobile brand awareness	



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#### 4. Living Lab Test – the Iliad device

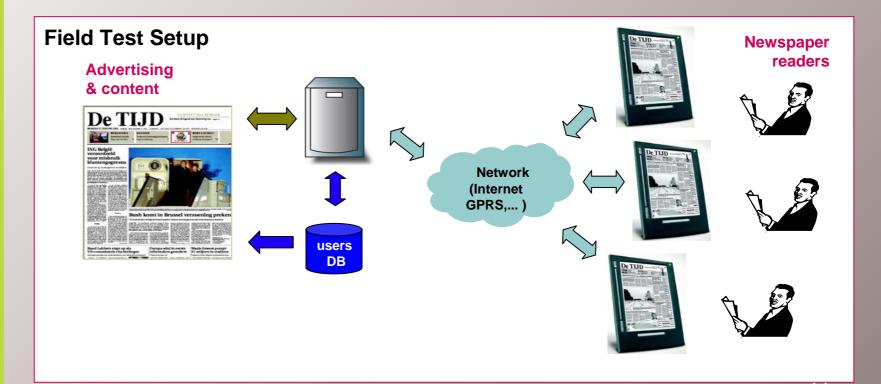




#### 4. Living Lab Test - setup

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# 200 'Tijd-readers' selected out of 500 candidates for a 'living lab' field test

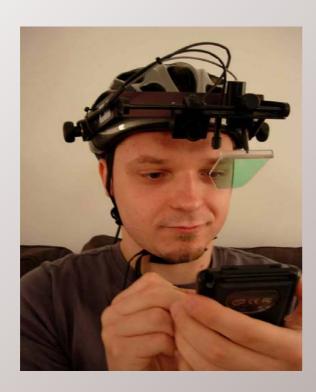




#### 4. First tests: usability lab

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# Paper model – real model







#### 4. Living Lab – setup

- Selection based on reader profile of "de Tijd"
  - Socio-demographical factors: Sex, age, social class, comparable professions
  - Mix residential professional subscription
- Other criteria:
  - Off- and online use of newspapers
  - Mobility
  - Use of interactive services (vb: download 'de Tijd')
  - Ownership of devices (PDA, laptop, smartphone,...)

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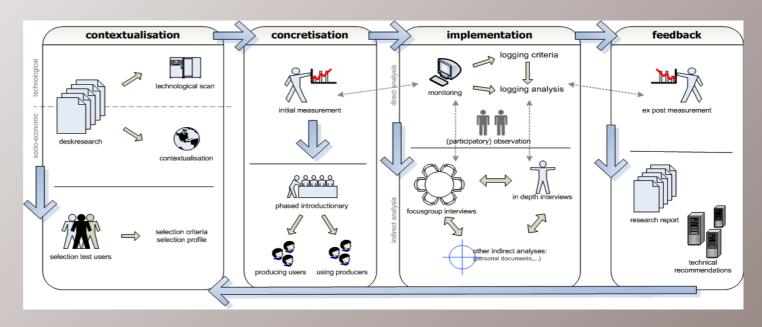


#### 4. Living lab test of e-ink device

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#### Living lab

- Using real users in their natural context
- Observe in their natural, daily behaviour
- Users is a co-producer in the innovation process



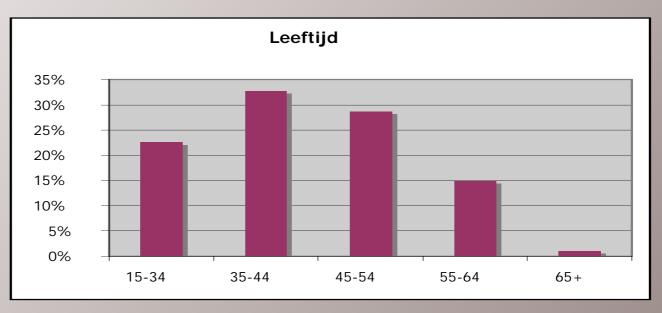


#### 4. E-paper case

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# Testpanel

- 200 readers of 'De Tijd'
- 94,4% male, 5,6% female





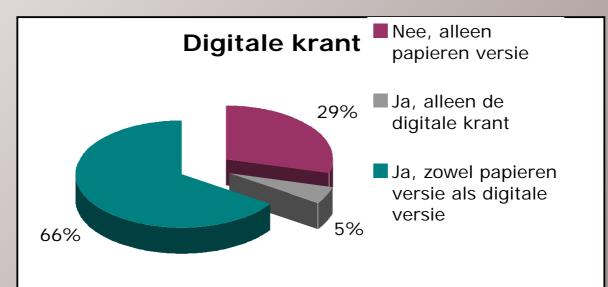
#### 4. E-paper case

#### The mobile digital newspaper

# Testpanel

- Highly educated
- Computer & internet experienced

#### Print as well as online version readers



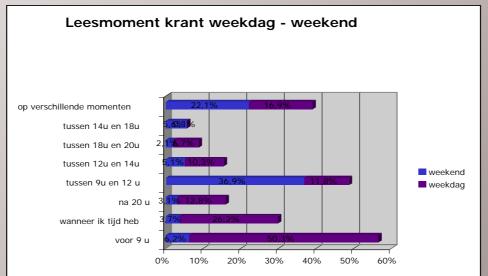




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# Reading behaviour:

- Functional: less then 1 hour, only those articles of interest
- 66,2% reads more then 1 newspaper
- Mostly @ home, in the morning





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# Usage

- Due to technical problems:
  - Not all test user were able to use their device/download newspapers
  - not a "normal" usage pattern (slowness, unstable devices) could be monitored
- Conclusion: 'classic' paper is simpler ③

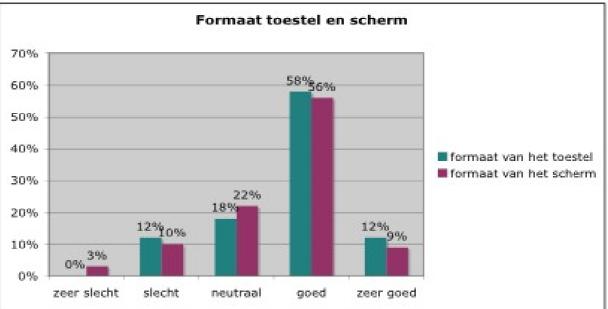


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# Device

- Positive reactions on format, weight and design
- Screen quality !!!

#### Battery autonomy not optimal (av.4h)





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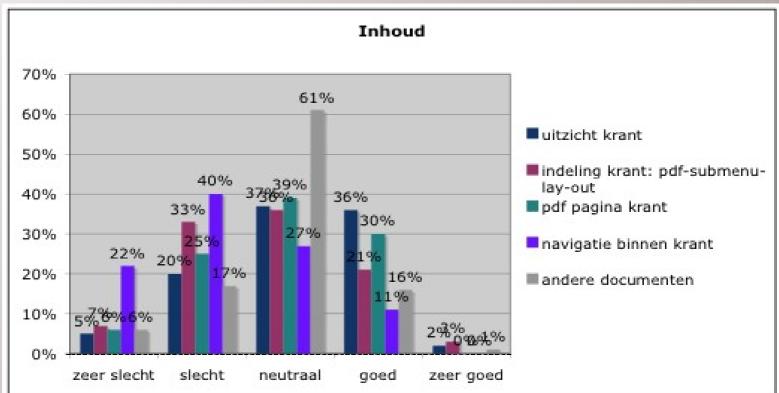
# Operation

- Buttons: multiple functions in 1 button = unclear
- Flipbar positive (link to books)
- Need for communication from the device: status indication + failure messages
- Need for a more intuitive usage
- Slowness = bottleneck!
  - Boot start up
  - Navigation



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# Content





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# Content

- General layout : neutral
- Zoom function on first page needed + direct link to article
- Navigation and structure need improvement
  - Reading pattern newspapers



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# Issues for improvement

- Way of downloading content: speed + need for wireless connection + automatic downloads
- Speed
- Usability of buttons
- Lay-out & navigation structure
- Zoom function needed



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### 5. User Testing Conclusions

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- Positive on screen quality and size
- Reading device vs. 'All in one'
  - Reading function most important feature
  - Integration in one device for PDA users
  - No news alerts
- For books, not newspapers in this setting
  - Navigation : logic of a newspaper reading
  - Characteristic of news
  - Expectations of multimedia ICT
- Multiple newspapers on one device
- Store and read other documents in PDF
- Opportunities but:
  - Specific navigation, look 'n feel important (PDF version <-> online newspaper)
  - 48,9% of test panel would consider buying an eReader (if fully operational)

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#### 5. User Testing Conclusion

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#### Other uses:

- On holiday: taking books on holiday (less weight) + download newspapers abroad
- Practical mobility due to size: in the car (traffic jams), by foot, in trains and busses and in business meetings
- Looking for added value of the digital device: more detail, maps, images, ...
- Old habits die hard:
  - some people still prefer their paper newspaper, because they are used to it. The same for books, people still prefer the smell, the look and feel and not to forget the importance of a well filled book shelf in the house



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#### 6. Business Modelling

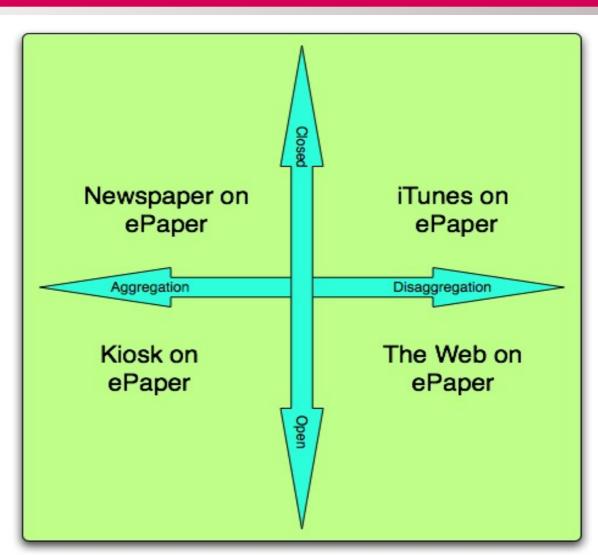
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#### Scenario method

- Based on 2 basic uncertainties
- Identified on the basis of:
  - Desk research
  - Interviews with actors involved
  - Interviews with actors in the Flemish Contexts
- Basic Uncertainties
  - Aggregation versus desaggregation
    - Extent to which newspaper content is offered as an editorial product
  - Open versus Closed
    - Extent to which the device is open to content from multiple players



#### 6. Scenario development





#### 6.1 Kiosk-Model: Scenario Outline

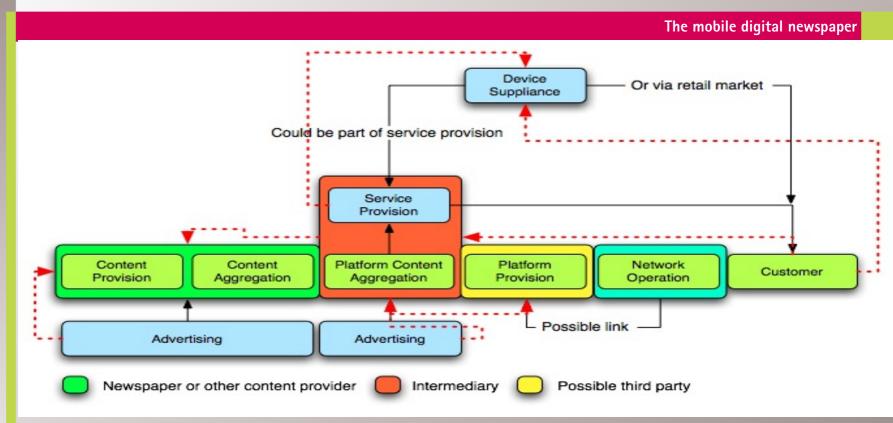
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# Intermediary offers integrated service

- Access to aggregated content
  - National and international newspapers
  - Magazines, Comics
  - Books, etc.
- From different content providers/aggregators
- Analogy with newspaper stand



#### 6.1 Kiosk-Model: Value Network



- Intermediary plays important role
  - Integrates two markets 1) readers; 2) information providers
  - Causes network externalities, especially online
- Advertising possible at two levels
  - Can cause friction

#### 6.1 Kiosk-Model: Value Network

- Service Provision: two options
  - Through intermediary
    - Newspaper looses costumer relationship
    - In analogy with purchasing paper in newsstand
  - Through newspaper
    - Subscription goes through newspaper
    - Intermediary platform for distribution
      - Newspaper and additional content
    - In analogy with distribution newspaper postal service
- Intermediary (different from device supplier)
  - Will favor open standards
  - Will try to publish on different devices
  - Will be forced by content producers to protect content with DRM



#### 6.1 Kiosk-Model: Financial model

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#### Payment models – different options

- One issue of magazine or newspaper
- Subscription for download multiple issues
- Subscription of one newspaper title
- Acquiring device
  - Bundling of device with subscriptions possible
- Pricing and revenue sharing
  - Difficult issue between intermediary and content providers/aggregators



## 6.1 Kiosk-Model: SWOT

Strengths	Weaknesses
Larger selection of content	New initiative so:
One platform for all content	Higher start-up costs
Newspaper retain editorial function	<ul> <li>Need for individual marketing and branding</li> <li>Newspaper looses costumer relation</li> </ul>
Opportunities	Threats
New platform for digital news	Conflict over revenue sharing
One open standard	Conflict over advertising
	Intermediary risks to become dominant
	Intermediary shifts towards role of content provision



## 6.2 iTunes-Model: Scenario Outline

The mobile digital newspaper

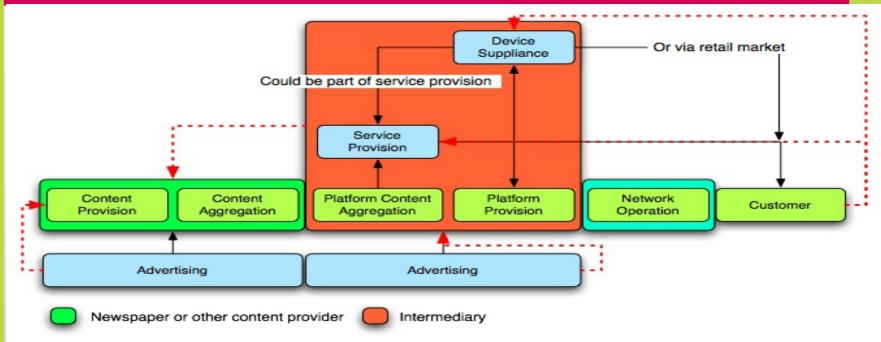
## Intermediary offers integrated service

- Access to disaggregated content
  - Single articles from national and international newspapers, Magazines, etc.
  - Comics, Books, etc.
- From different content providers/aggregators
- Service only available on specific device



#### 6.2 iTunes-Model: Value Network

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- Intermediary plays central role
  - Integrates two markets 1) readers, 2) content providers
  - BUT ALSO device suppliance and service provision
  - Content on single platform and on only one type of device
- Disaggregation of content

#### IBBT

## 6.2 iTunes-Model: Value Network

- Service Provision (disaggregated content)
  - Through intermediary
    - Newspaper looses costumer relationship
    - Newspaper looses part of editorial function
- Intermediary and device supplier same actor
  - Might favor proprietary standards
  - Will favor compatibility with own devices
  - Will be forced by content producers to protect content with DRM
- Intermediary might shift to content provisioning



## 6.2 iTunes-Model: Financial model

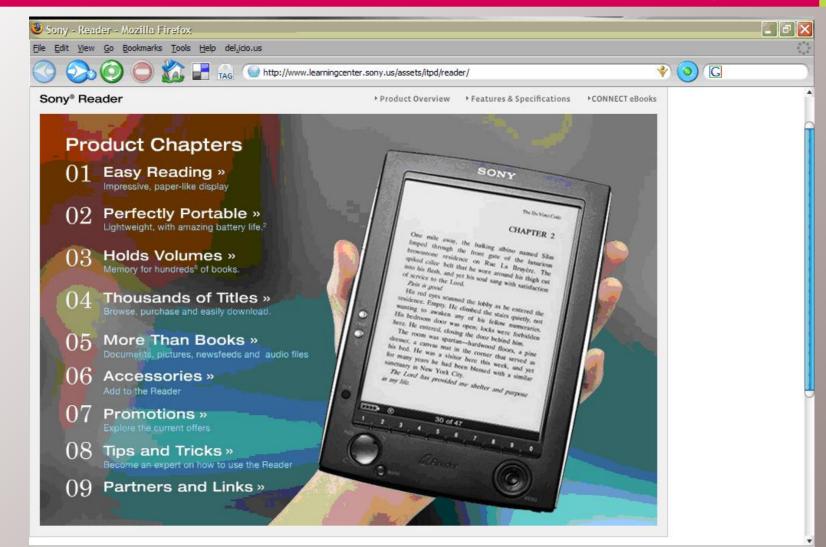
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- Largely the same as former model
- Payment models
  - Different options possible
  - BUT also single articles
  - Micro-payments might be conducive for model
- Acquiring device
  - Bundling possible but less likely
- Pricing and revenue sharing
  - Difficult issue between intermediary and content providers/aggregators
  - Intermediary more possibilities to generate income
    - On basis of sold content
    - On basis of devices
    - On basis of advertising at platform level

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#### Itunes Model – books

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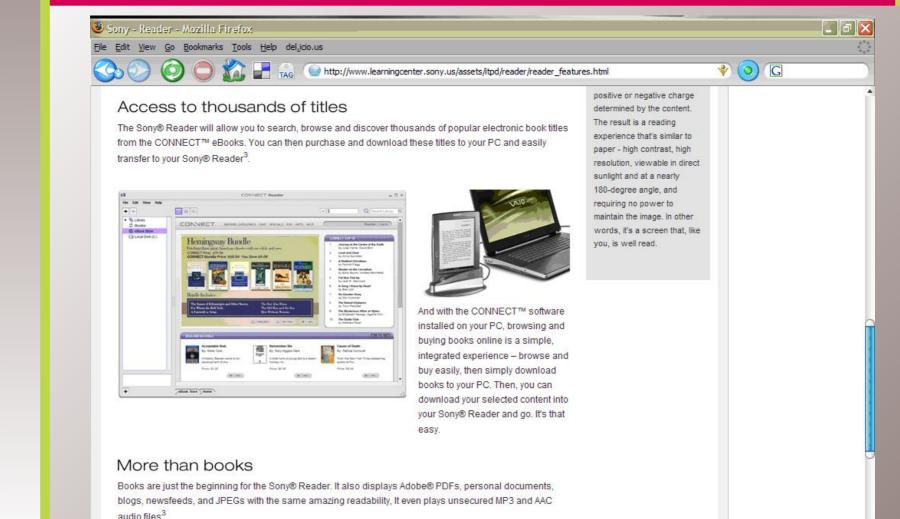


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Done

#### Itunes Model – books

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IRRT

## 6.2 iTunes-Model: SWOT

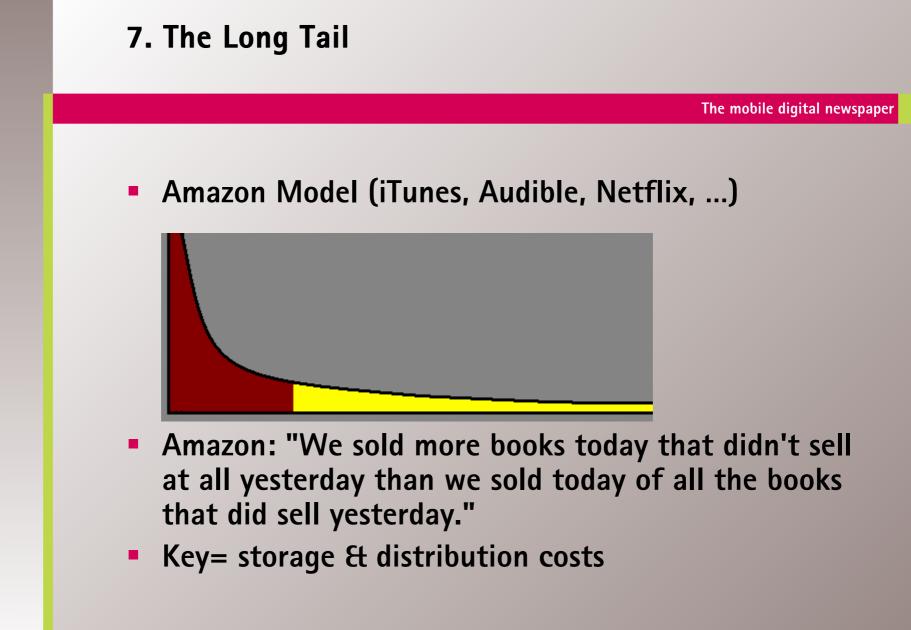
Strengths	Weaknesses
Higher selection of content	•New initiative, so:
Single platform for all content	Higher start-up costs
Strong personalisation possible	Need for individual marketing and branding
<ul> <li>Strong compatibility between service and device possible</li> <li>Might be in line with changing user experience</li> </ul>	<ul> <li>Newspaper looses costumer relation</li> <li>Newspaper looses part editorial function</li> </ul>
Opportunities	Threats
New platform for digital news	Conflict over standards possible
Possible high market penetration of single device	Conflict over revenue sharing possible
	Conflict over advertising
	Intermediary might become dominant



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#### 7. The Long Tail

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# Key= storage & distribution costs





#### 7. But...

- eMusic is a subscription service, which invests heavily in editorial expertise, by employing 120 writers. Profits from the Long Tail don't just fall out of trees ...
- Apple's iTunes Music increases the importance of the hit: 90 per cent of revenues come from 10 per cent of the catalog
- Anderson's initial Long Tail essay claimed that 57 per cent of Amazon.com's sales lie beyond the 100,000 books that make up a typical book store's physical inventory. This startling claim was revised downward, because the data was "funky". The published book now states "about a quarter of Amazon's book sales come from outside its top 100,000 titles.
- Users need to be able to find the 'rare gems' that fit their taste !



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## 8. Addition Remarks

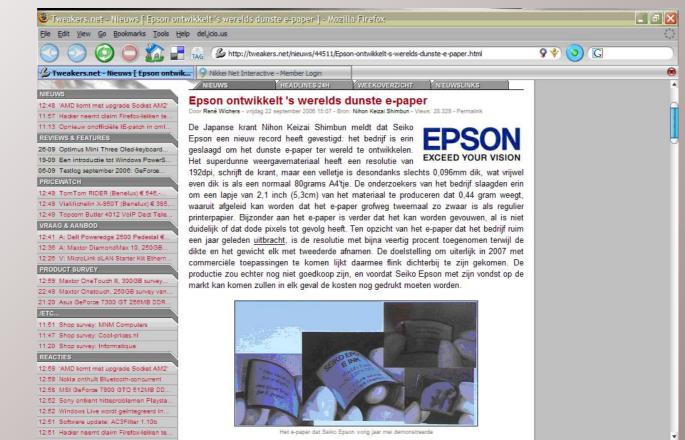
- Click advertising (keywords) see google
  - sponsored book downloads ?
- Use of brand names in media trust issues
- Community peer recommandations
- Personalisation



#### 8. Addition Remarks

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#### Device evolution...



IRRT

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### 9. Conclusions

- People like their newspaper people (europeans) like their books
- Smart aggregation editorial work the power of the brand are still in play
  - Bookshops have strong brands!
- Basic economics still apply: competitive advantages specialization vs volume trade
  - But watch out for new market players (see iTunes)
- Next 5–10 years will see crucial evolutions (access anywhere, foldable paper, ubiquitous computing, content availability)





