



## SBTVD Overview

## Session 2 Digital TV Outlook

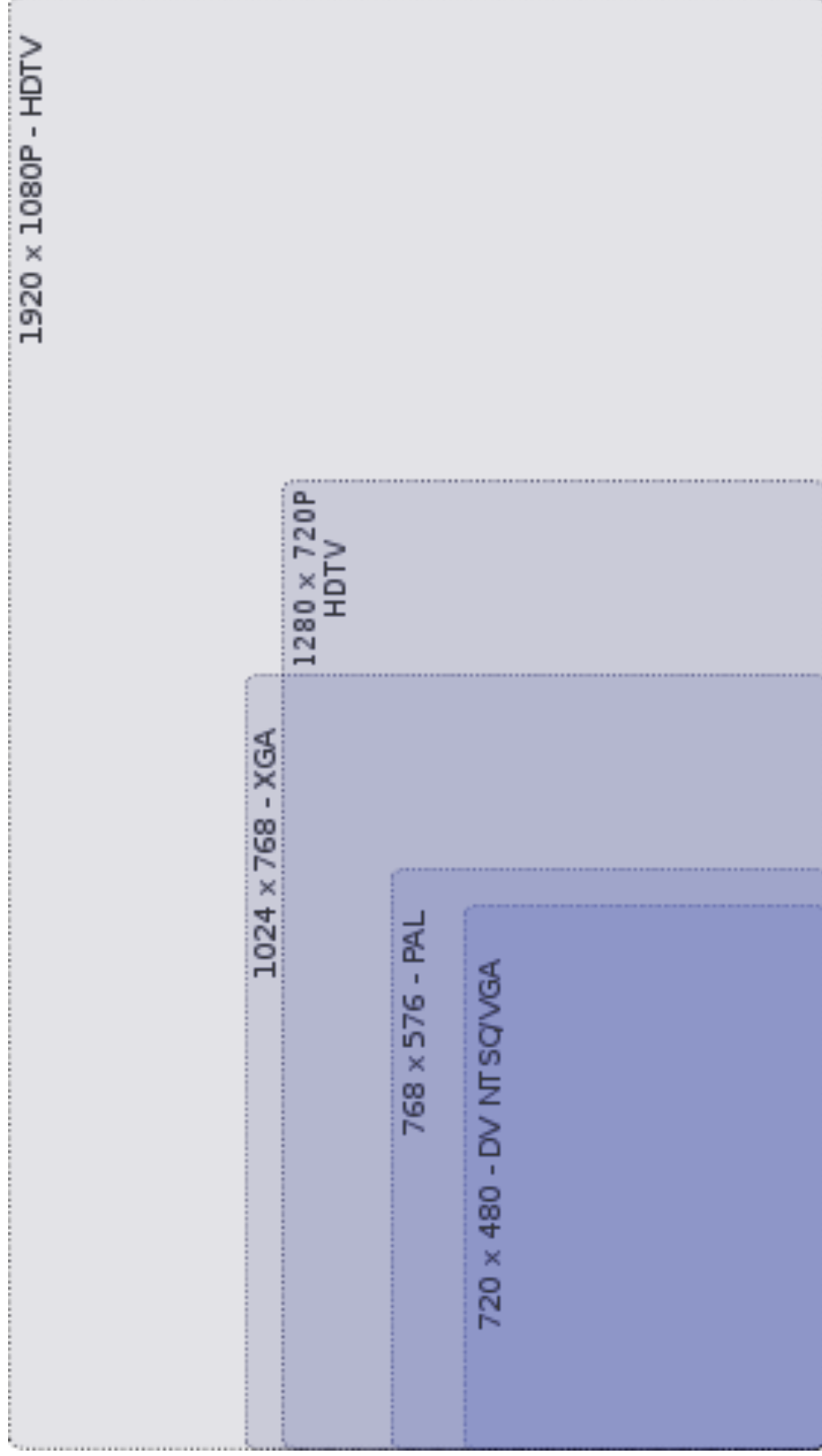
# Sensation Changes

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# Analog X Digital TV

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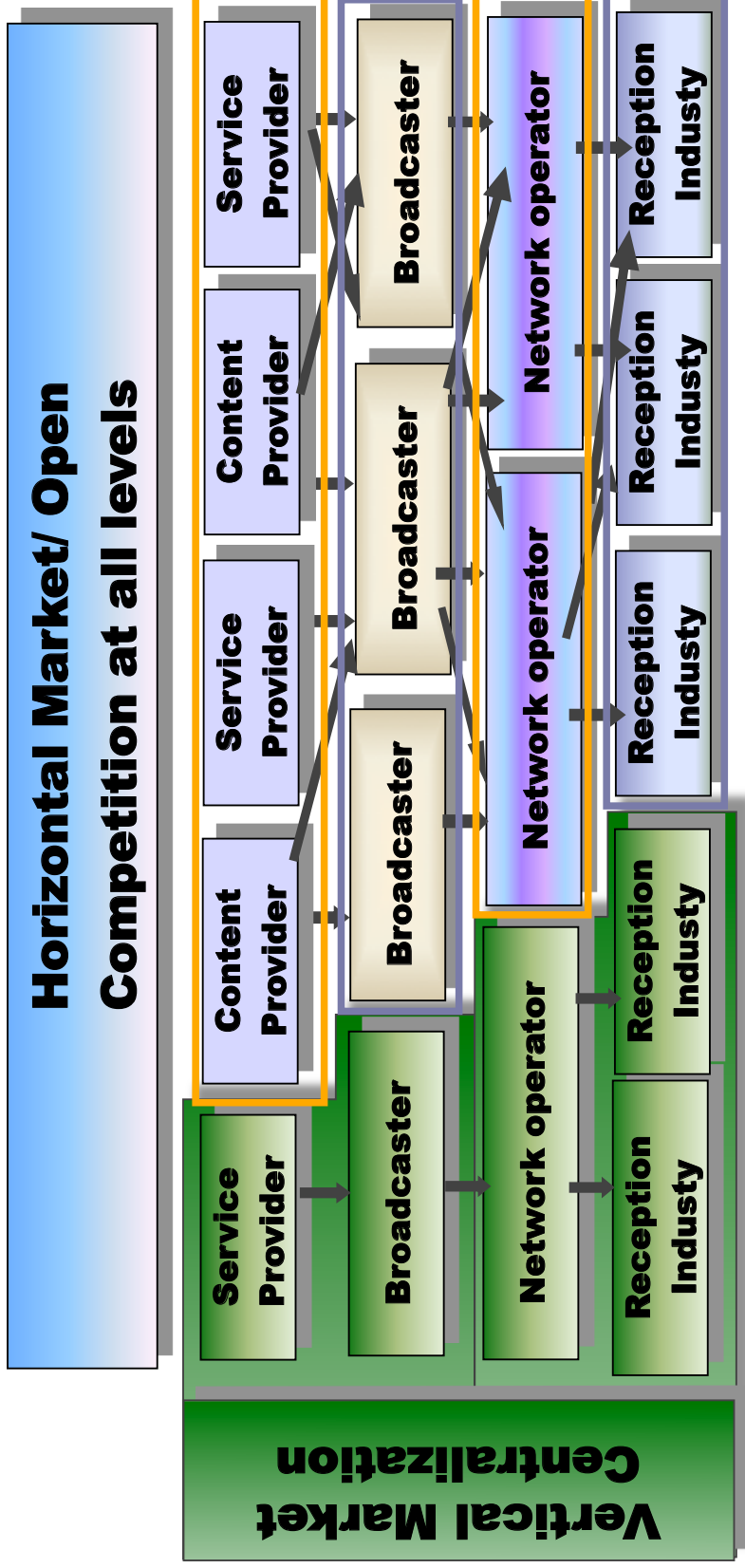


# Habits Changes



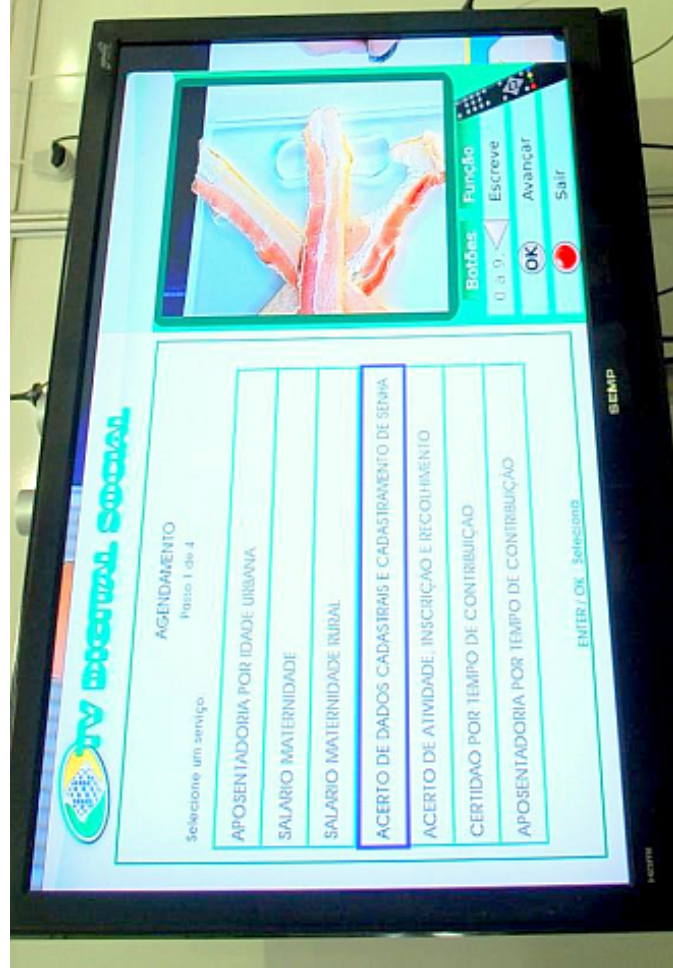
# Market Changes

- Vertical X Horizontal Market
- Open Standards

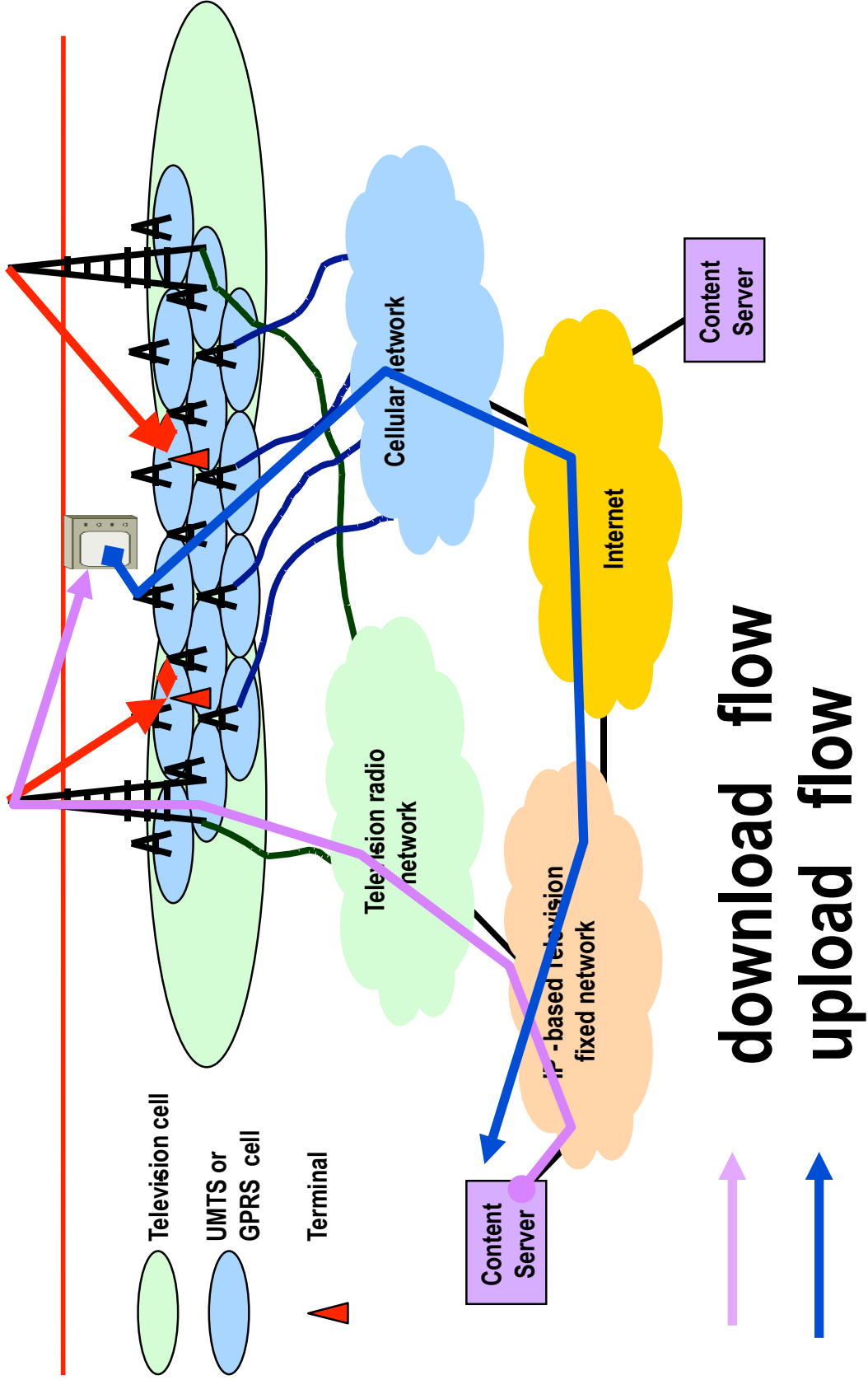




# More Changes ? Digital Inclusion

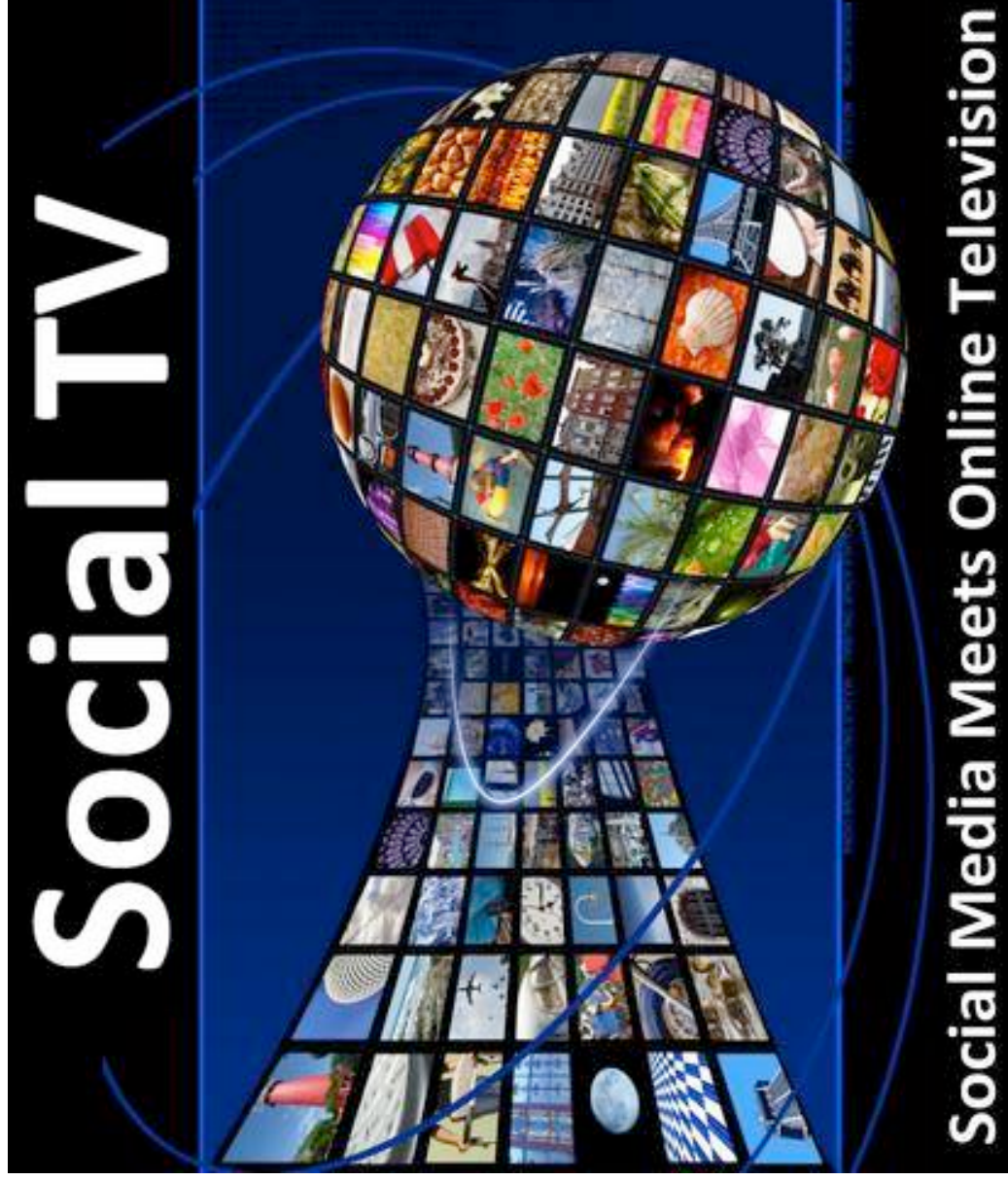


# More changes? Convergent Network



# More changes? Hybrid TV

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# Interactivity categories

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- **Local Interactivity**
- **Interactivity with Return Channel to Broadcast (Walled Garden)**
- **Interactivity with Return Channel to Internet**

# Conventional TV X New TV

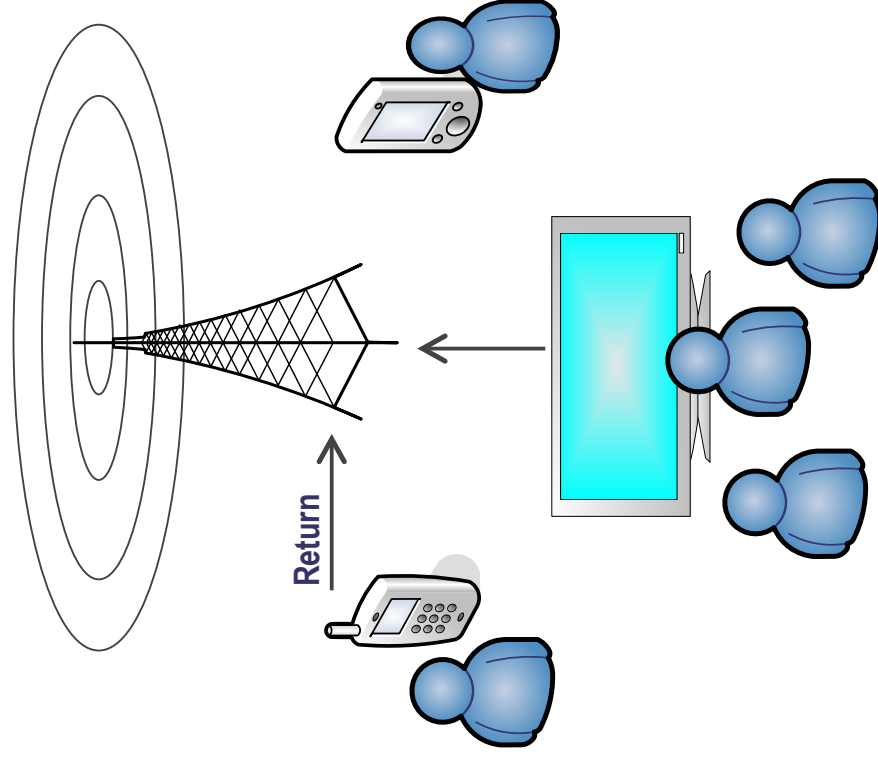
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## Conventional **New**

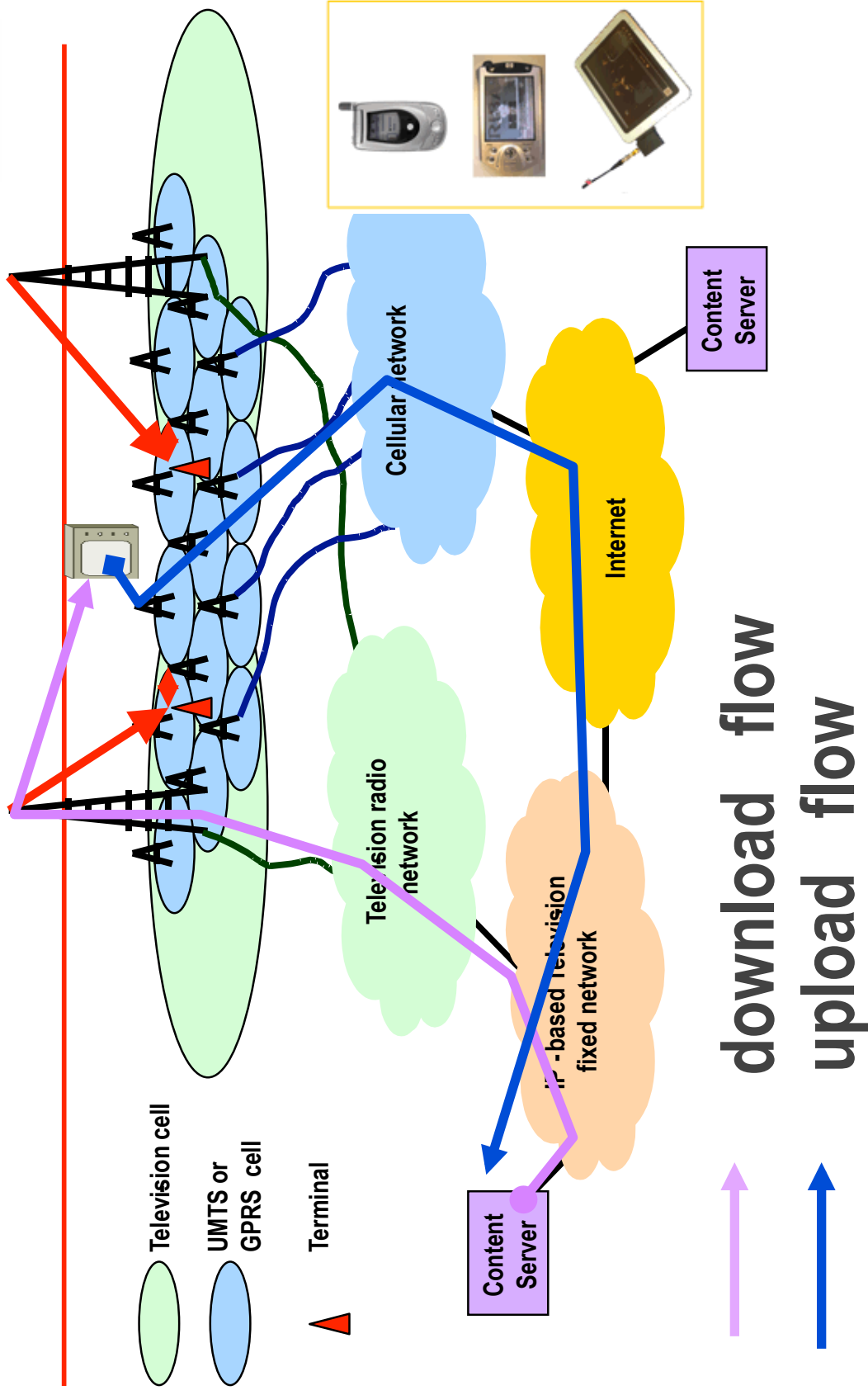
Linear transmission	On demand transmission
Broadcast distribution	Individual/Niches Distribution
Content-centric	User-centric
Broadcast Program Schedule	Stand-alone program
Program, Genres and Formats	Tags, filters, and search maps
Season/Series(chapters and blocks)	Fragmentation
Units not finished	Closed units
Repeatable Content	Specific content
Advertisement between blocks...	No blocks / No Advertisement

# Challenges

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- **Diversity of receivers with different capabilities and features (display, processor, input device)**
  - **Diversity of transmission networks and communication technologies**
  - **Large number of users, with different preferences and goals.**
  - **Eventually more than one user per terminal.**
  - **All users in a channel receive the same content simultaneously.**
  - **User passive mode.**
  - **Content personalization and recommendation**

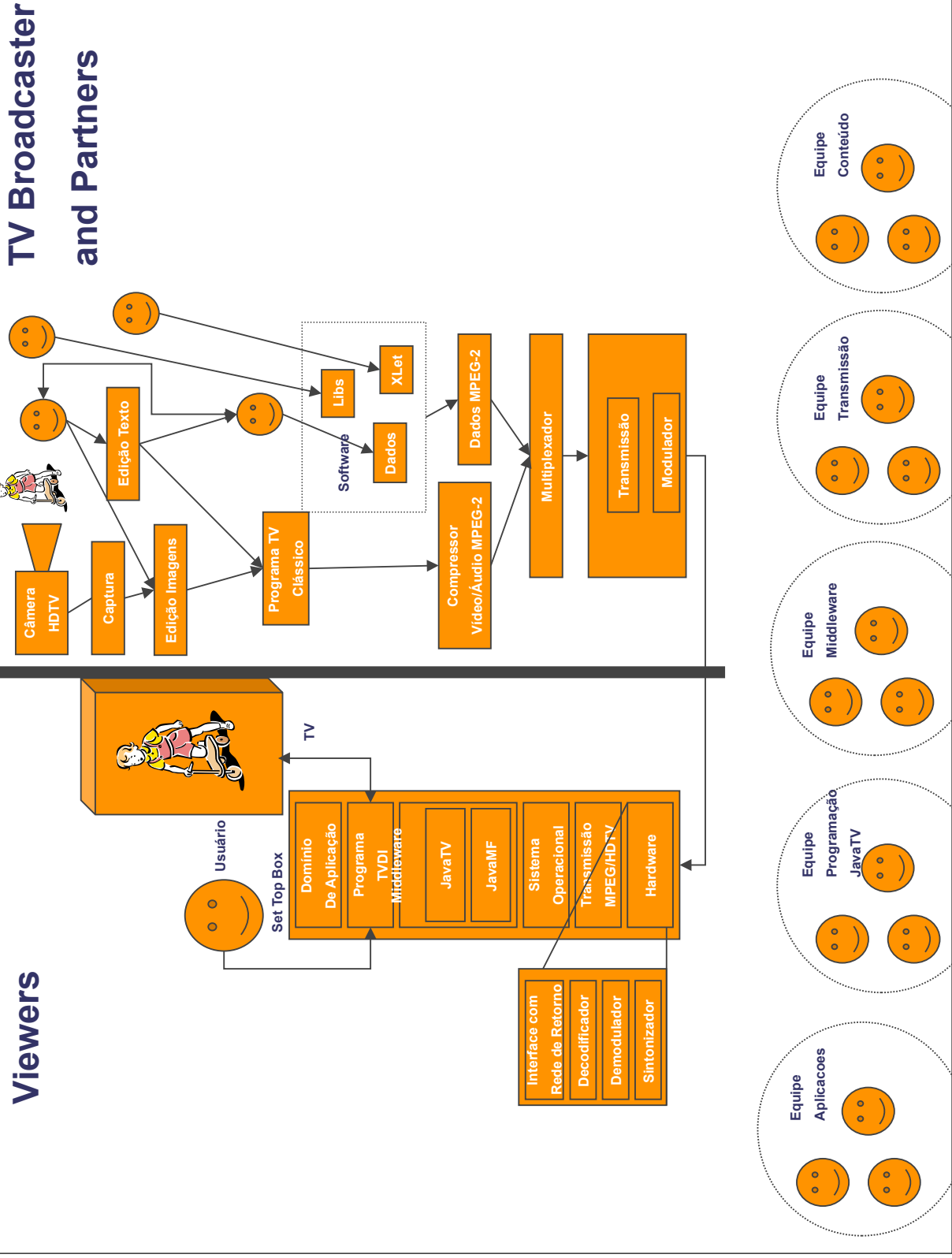


# Billing challenges





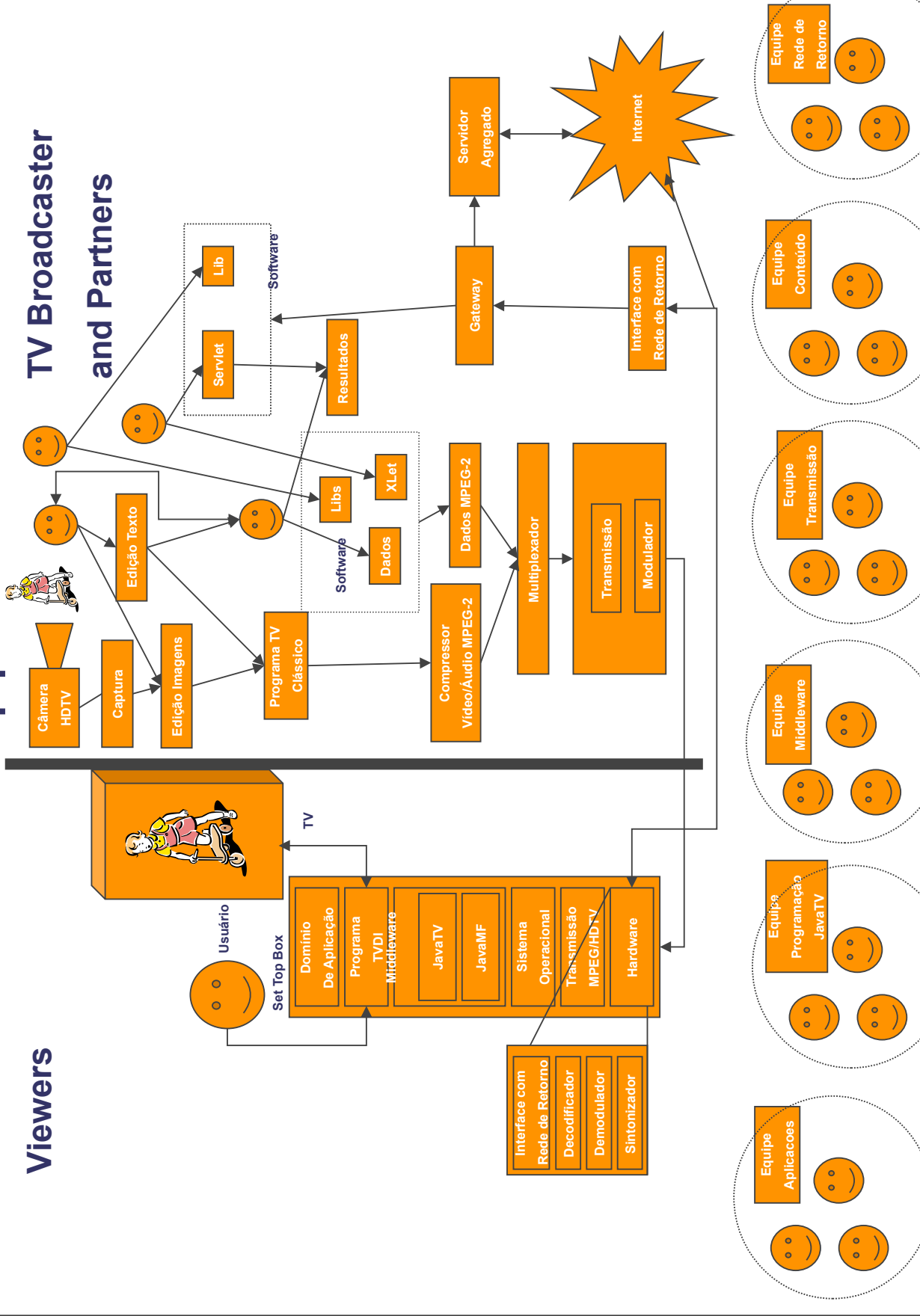
# Market Opportunities



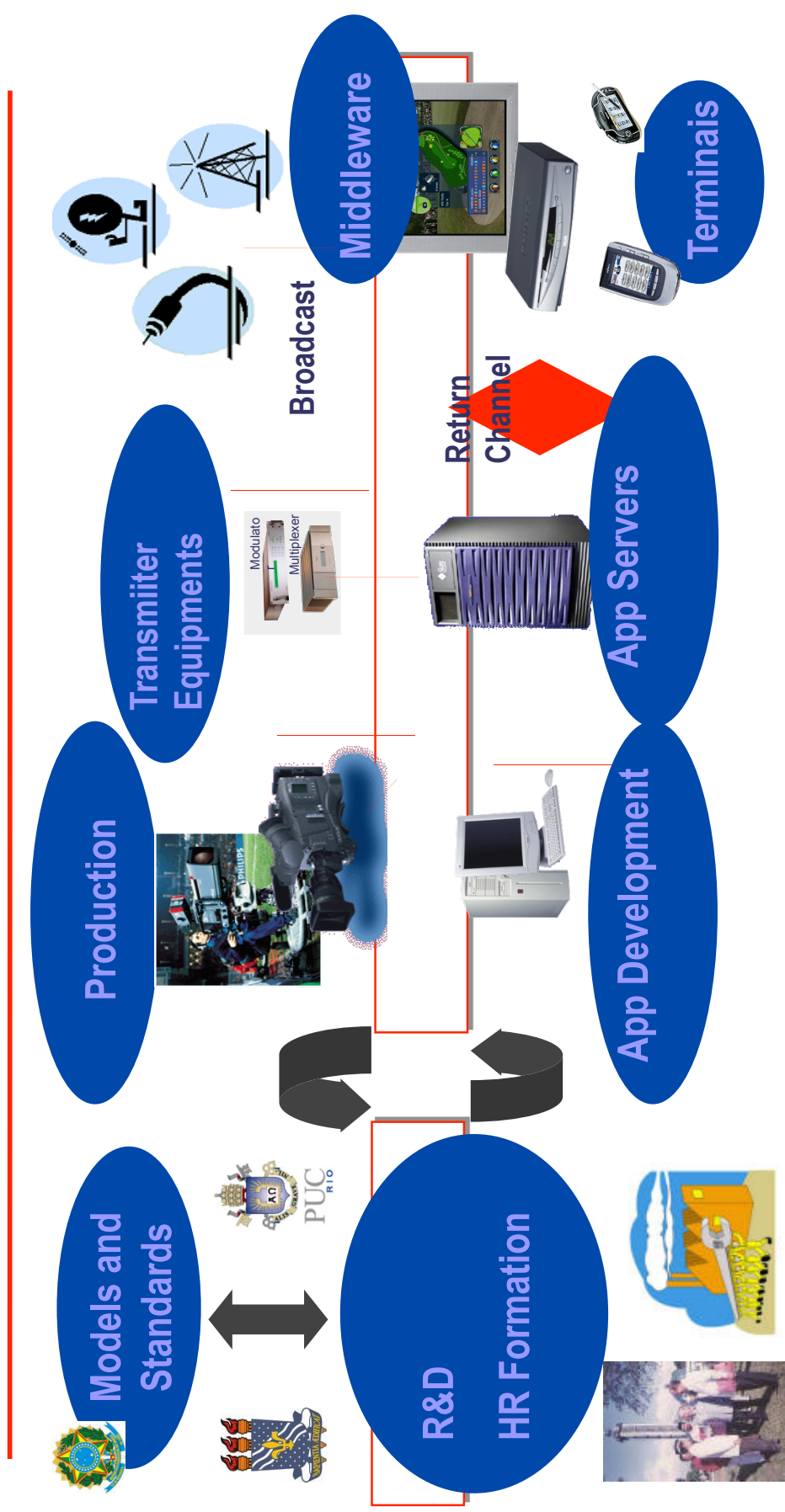
# Market Opportunities

**Viewers**

**TV Broadcaster and Partners**



# Value Chain



Technologies Reuse

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## Java Everywhere\*

4.5 Billion Java-Enabled Devices

1.8 Billion Java-Enabled Phones

2.2 Billion Java Cards

20 Million Java TV Devices

800 Million Java Desktops

180 Operators Deploying  
Java Content

6 Million Developers  
(110 Thousands in Brazil)

**\*Source: Sun Microsystems, 2009**

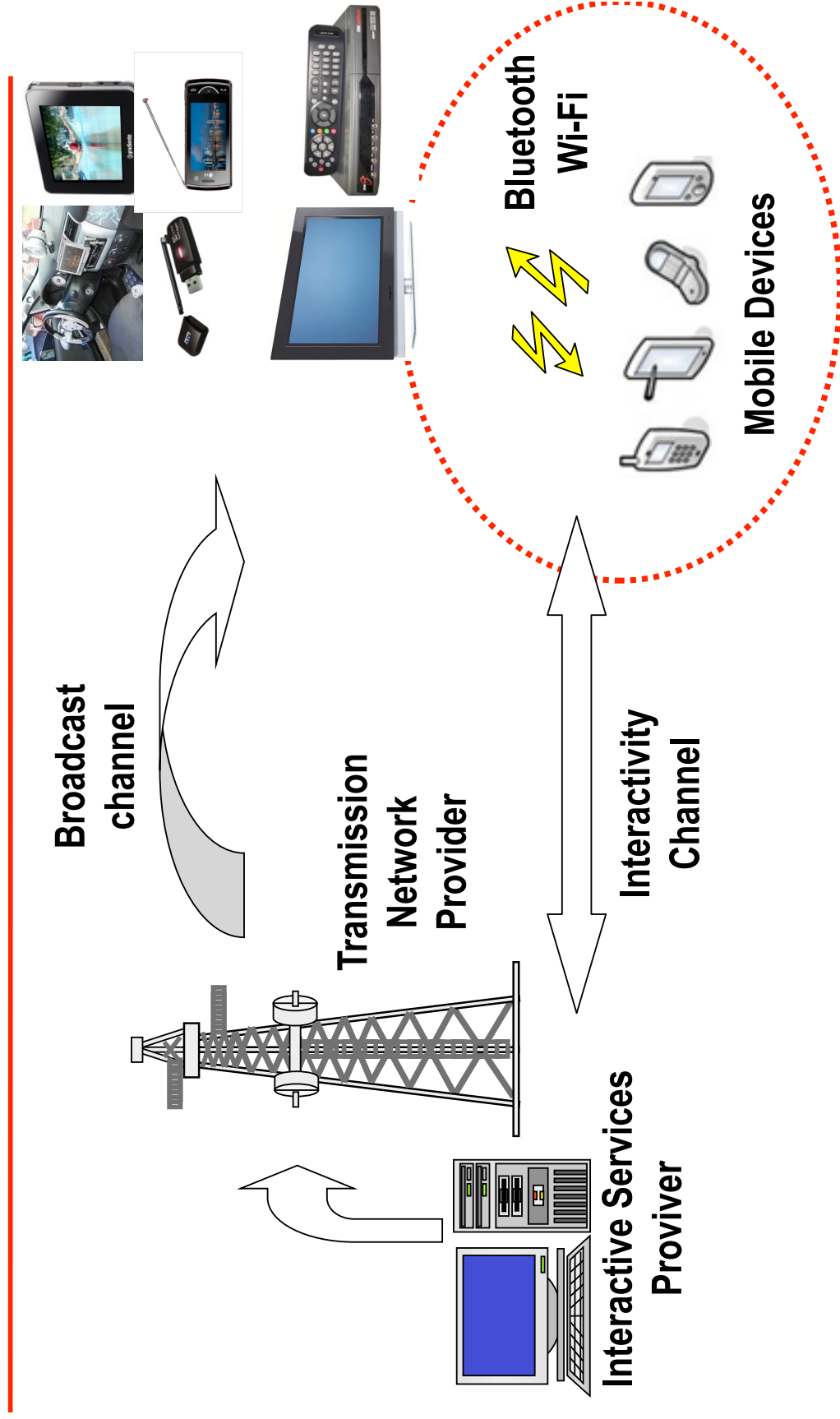


Java™



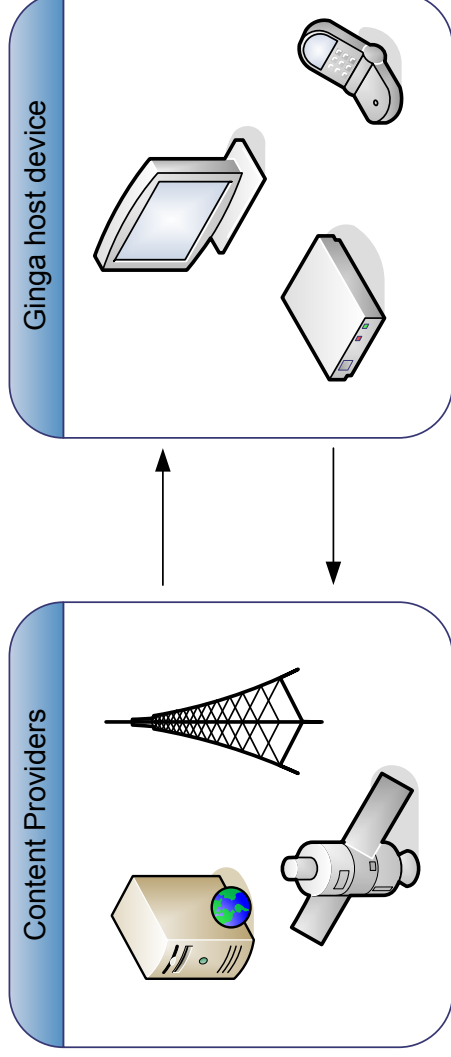


# SBTVD – Innovations

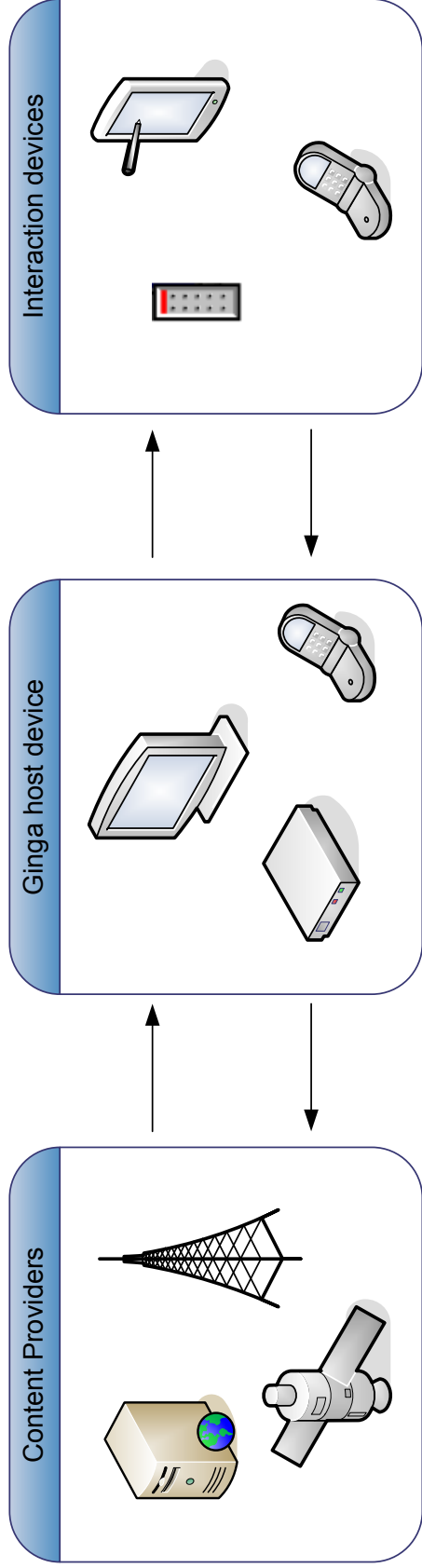


# Ginga Context

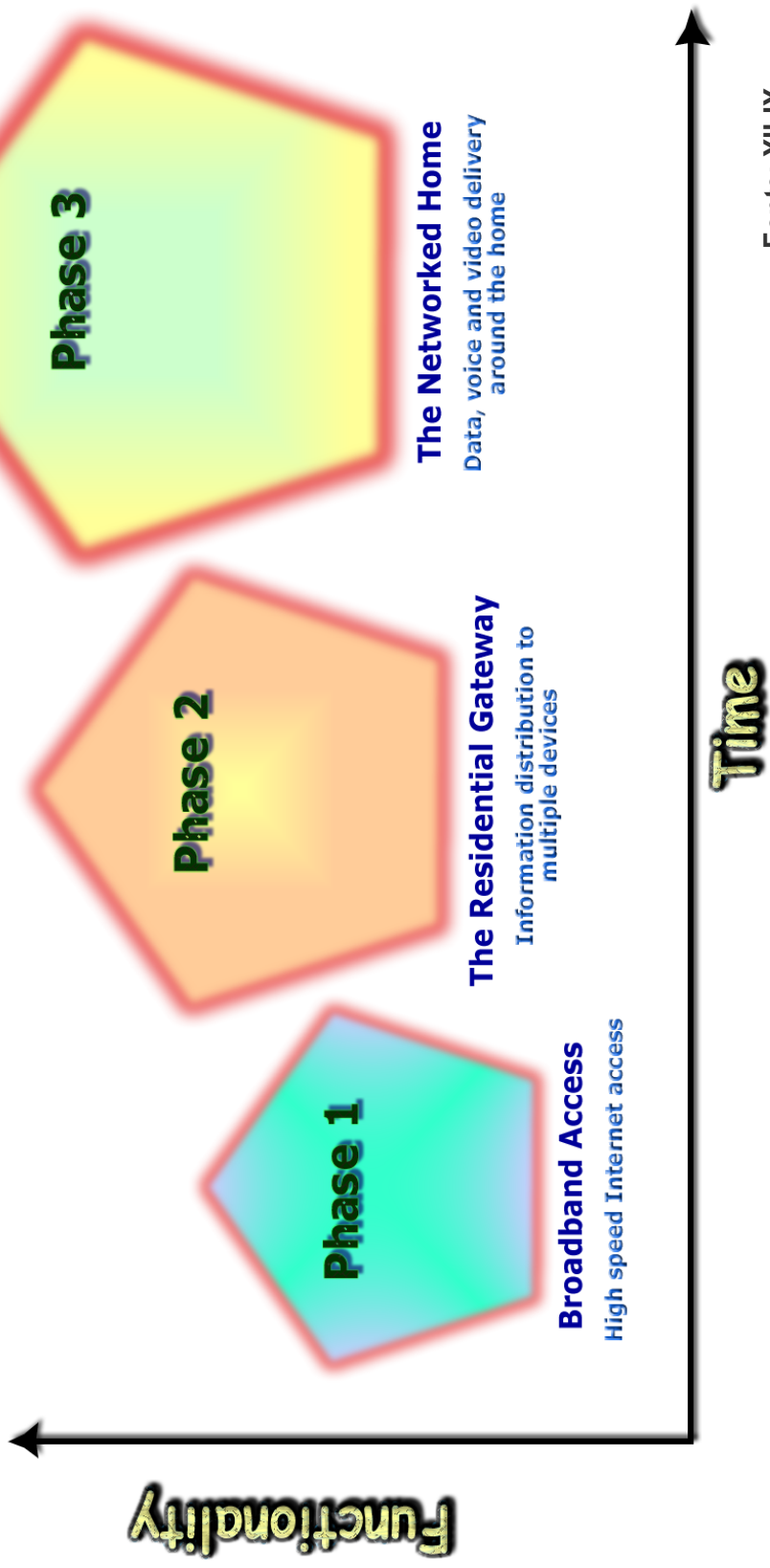
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# Ginga Context Extended



# Home Networking



Fonte: XILIX



# Applications Examples

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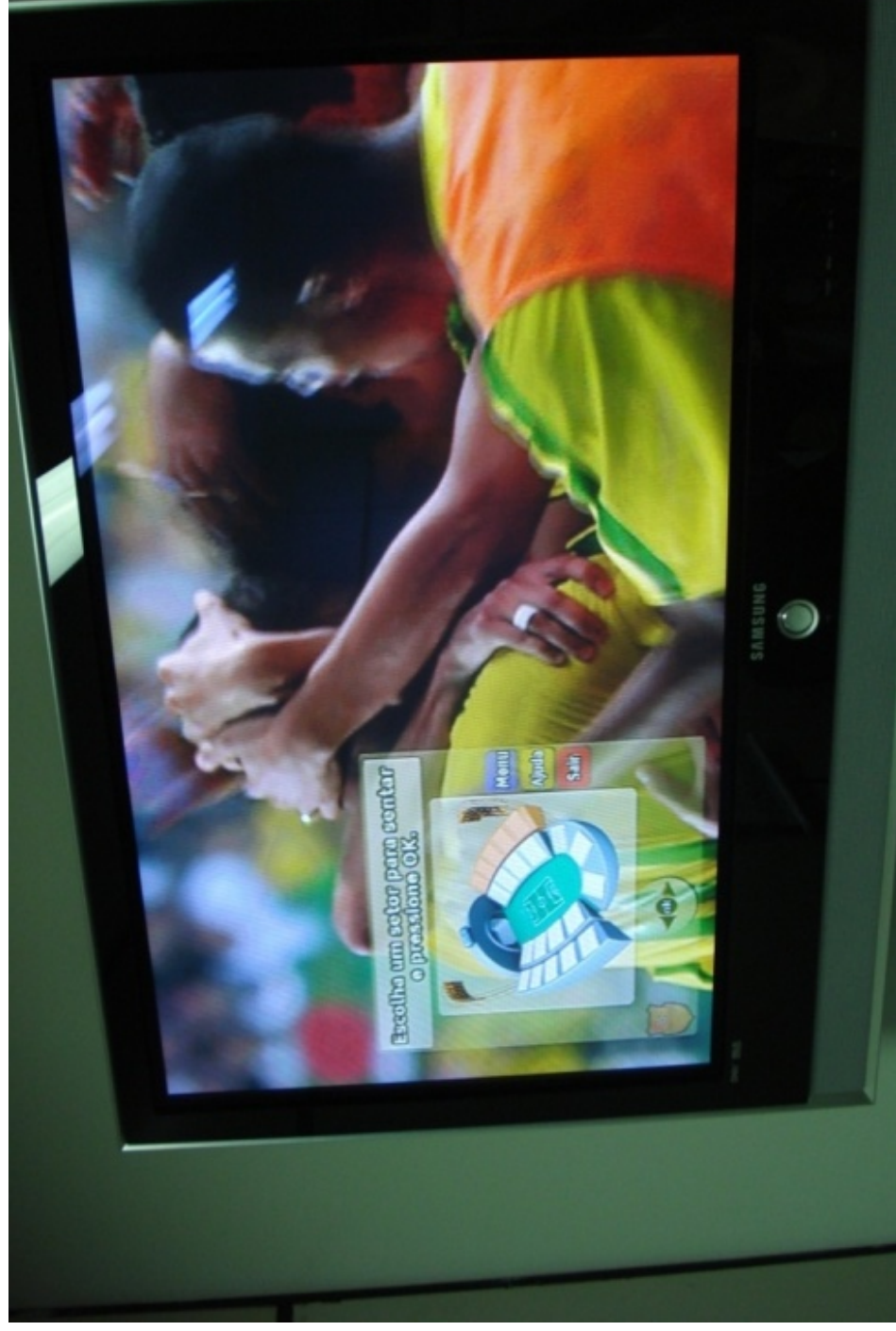
# Multi-devices and multi-user API

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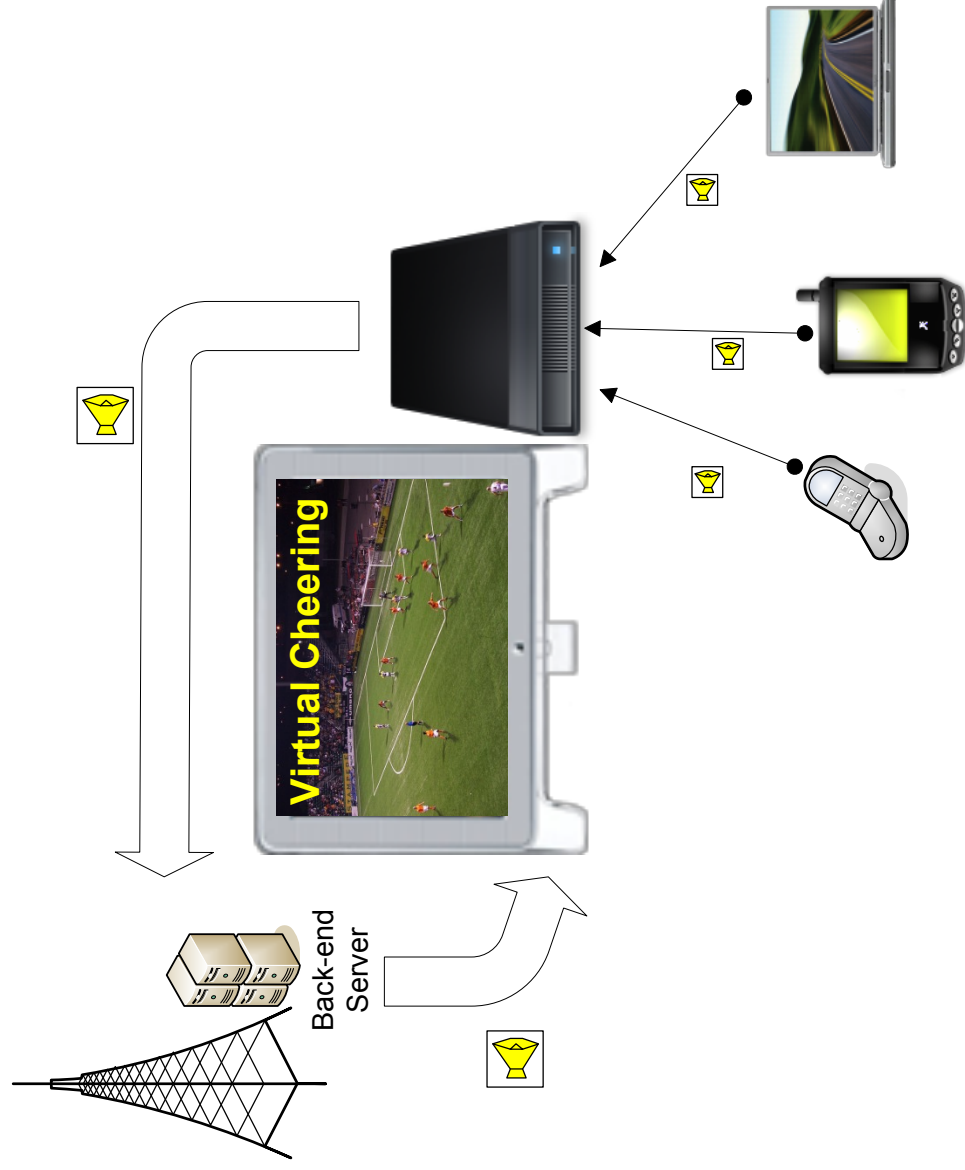


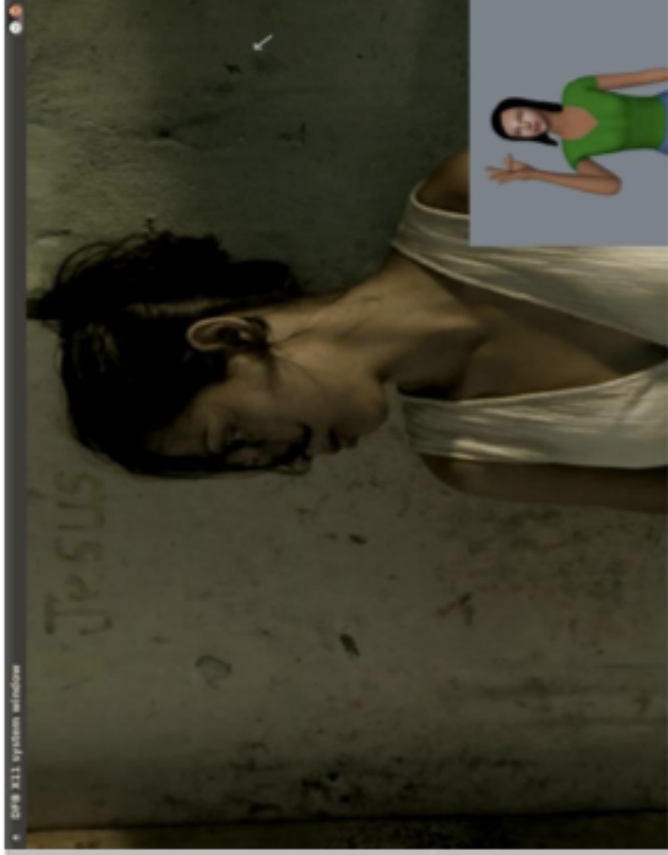
# Virtual Cheering

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# Virtual Cheering





<u>Sinal</u>	<u>Animação</u>
amanhã	
estudar	
medicina	

# GingaAppStore Project (Actual)

- Applications repository to SBTVD



Windows Marketplace



<http://www.lavid.ufpb.br>

Questions?  
Thank You.