



2nd Joint MSR-FAPESP Workshop

Cross media for e-government services

Escola Politécnica da USP
Laboratório de Tecnologia de Software
Grupo de Estudos em **i**nteração



Project funded by



Agenda

- A (very) quick view about X-Gov
- Results
- Open research questions
- Management issues





X-GOV





Objective:

We shall develop a framework to support cross media government services



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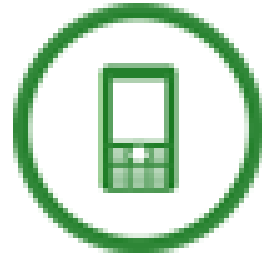


Cross media?



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Cross media is the **orchestration** of different media and devices to deliver a story, in which each media contributes with its strengths.



Cross media is

- A new interaction paradigm
- A new way of using C&I technology
- A world trend in marketing and entertainment





X-gov is defined as the delivery of **public services** across **multiple media**, in which **G2C** communication is supported by several media alternatives, each one **directing** the citizen to the next step in the interaction process and to the more suitable media for that step.





A framework?



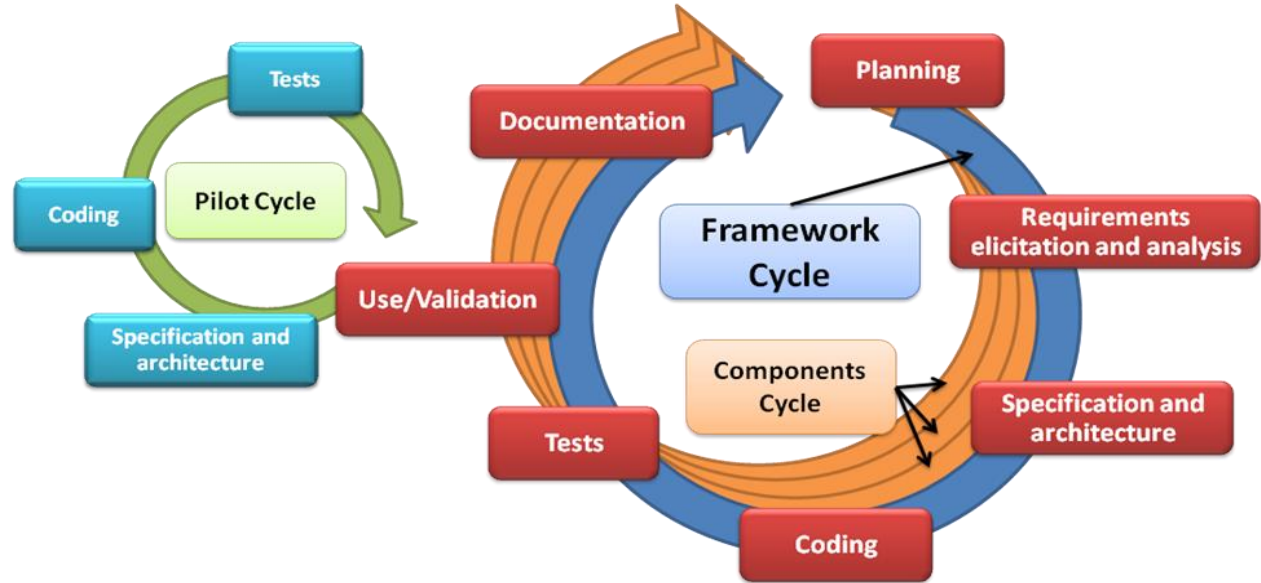


RESULTS





Development process cycles



2nd. POC

- **reusable software for e-government services**
- **transitions between different media and devices**



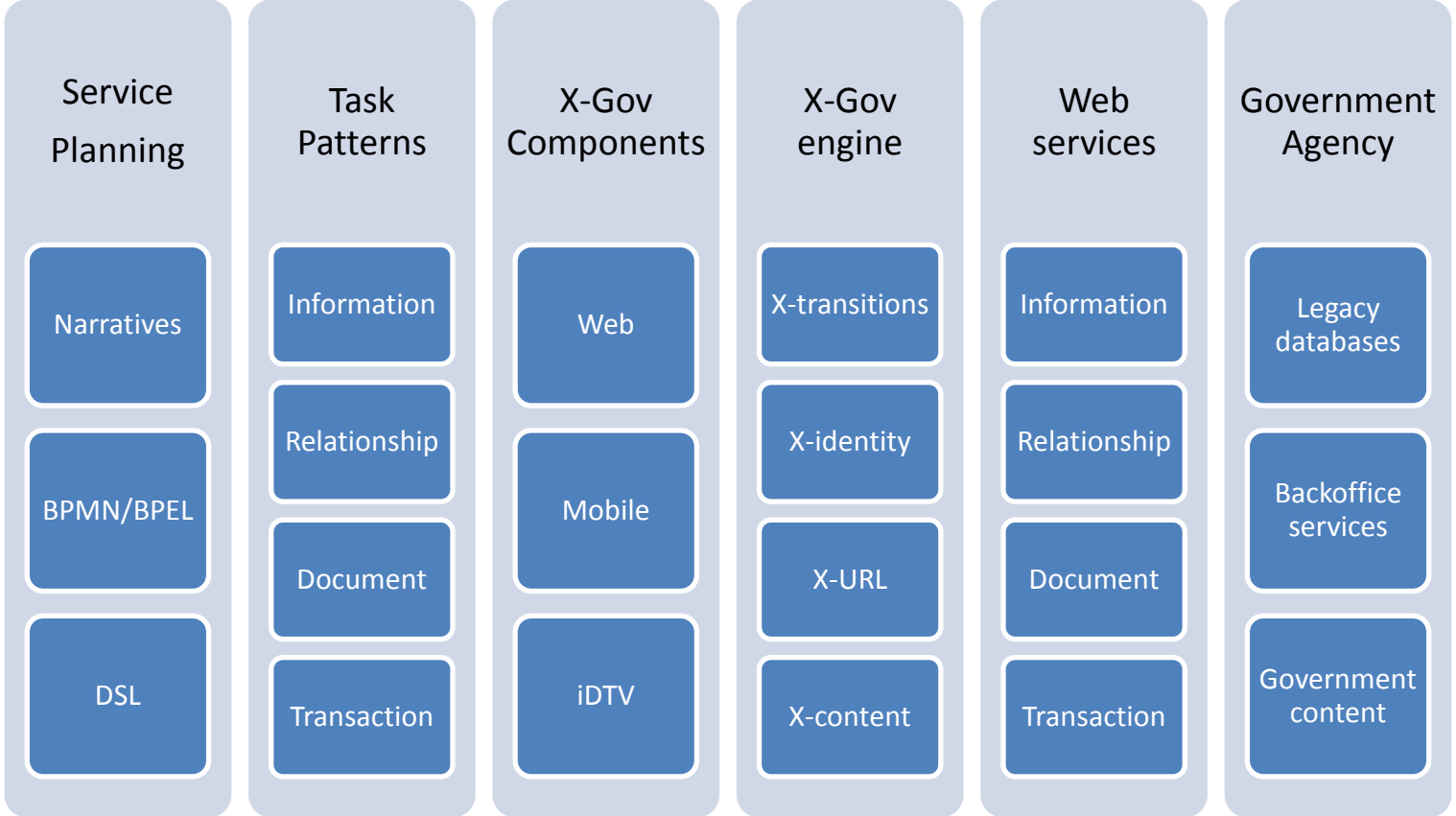


Task Patterns List

Information	Document	Transaction	Relationship
Obtain pre-service information	Get digitally certified document	Authentication	Talk to the ombudsman
Submit information to government	Create an invoice	Get track id	Receive a message
Submit personal information	Verify document validity	Pay fee/tax	Track a process
Find public information	Print document	Schedule	
Find information about entity	Save as file		
Find private information			

<http://lts-i.pcs.usp.br/xgov/taskpatterns.html>

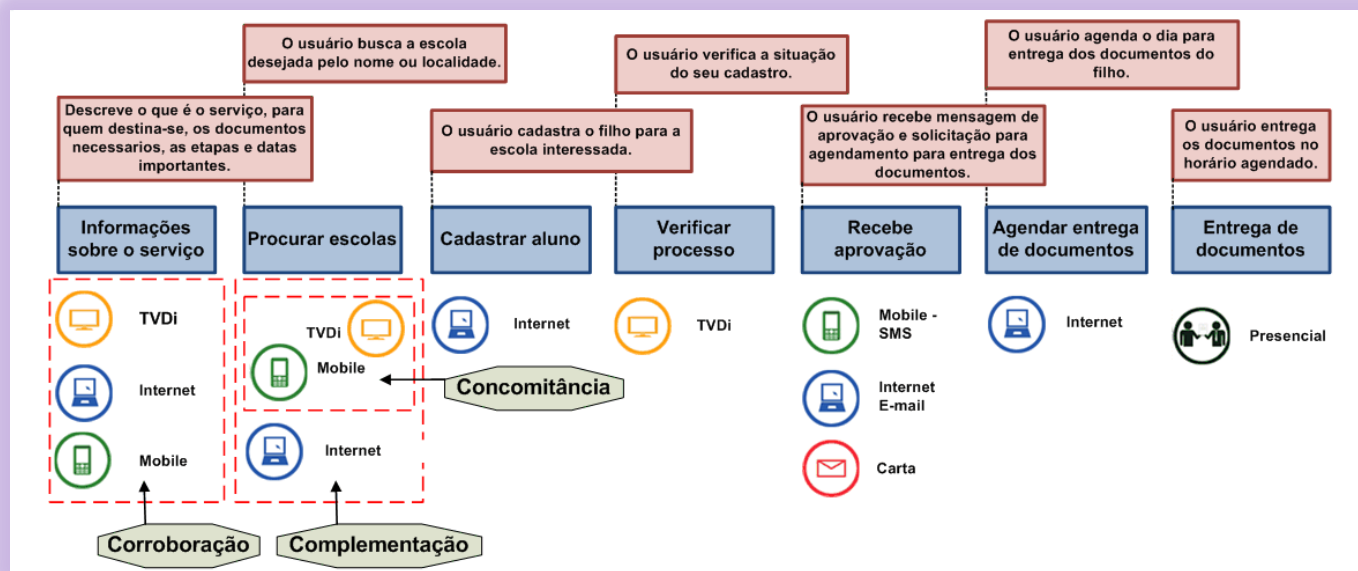






X-Gov 3 C's

Confirmation
Complementation
Concomitance



X-gov

Publications

- Filgueiras, L. V., Correa, D. O., Neto, J. S., and Facis, R. P. 2008. X-Gov Planning: How to Apply Cross Media to Government Services. In *Proceedings of the Second international Conference on Digital Society* (February 10 - 15, 2008). ICDS. IEEE Computer Society, Washington, DC, 140-145. DOI= <http://dx.doi.org/10.1109/ICDS.2008.29>
- de Oliveira Neto, J. S. and Filgueiras, L. V. 2008. Crossmedia application design: exploring linear and non-linear narrative abilities. In *Proceedings of the 26th Annual ACM international Conference on Design of Communication* (Lisbon, Portugal, September 22 - 24, 2008). SIGDOC '08. ACM, New York, NY, 225-234. DOI= <http://doi.acm.org/10.1145/1456536.1456582>
- Miyamaru, F., Leite, L., Bertuzzi, A. and Filgueiras, L. 2008. Task patterns for e-government services. In *Anais do VIII Simpósio Sobre Fatores Humanos em Sistemas Computacionais*. (Porto Alegre, Brazil, October 1-24, 2008). IHC2008. SBC. ISBN 978-85-7669-203-4
- Miyamaru, F., Leite, L., Bertuzzi, A. and Filgueiras, L. 2008. Mídia cruzada em serviços de governo: conceito e aplicação . In *Anais do VIII Simpósio Sobre Fatores Humanos em Sistemas Computacionais*. (Porto Alegre, Brazil, October 1-24, 2008). IHC2008. SBC. ISBN 978-85-7669-203-4





OPEN RESEARCH QUESTIONS





Service Modeling



Databases

Multimedia Content
XML Databases

Cross-media artefacts

Cross-media Tools

x-Gov Task Patterns

Cross-media interface heuristics

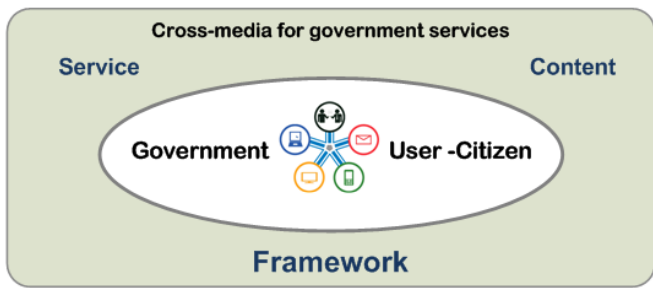
Architecture

CBSE

SOA

Java Platform

.NET Framework



Cross-media Publishing

Accessibility

Usability evaluation at cross-media environment

Mobile

SMS

Web

x-Identity

x-URL

x-Transition

x-Model

TVDi

Ginga -NCL-LUA

Ginga-J

Voice

VoiceXML

Printed Media





3rd POC

- X-Model
- X-Content interface
- X-Id
- X-URL
- Usability studies





MANAGEMENT ISSUES





X-Gov Team

The Core Research Team

- Flavio Miyamaru (Ms Student, EPUSP, MSR–Fapesp)
- André Quintela Bertuzzi (UG student, EPUSP, MSR-Fapesp)
- Leonardo Alexandre Ferreira Leite (UG Student, EPUSP, MSR–Fapesp)

Associated Researchers

- Profa. Dra. Judith Pavón Mendoza (PhD, Anhembi-Morumbi)
- Prof. Dr. Sidney Vianna (PhD, Unifieo)
- João Soares Neto (PhD Student, EPUSP)
- Wladimir Braguini Domingues (Ms Student, MP-IPT)
- Danilo de Oliveira Correa (Ms Student EPUSP)
- Stefan Martins (Ms Student, EPUSP)
- Heitor Ganzelli (UG Student, EPUSP)
- Rodrigo Salinas (UG Student, Anhembi-Morumbi)
- Luciano Ribeiro (UG Student, Anhembi-Morumbi)
- Bruno Paschoalato (UG Student, UNIFIEO)

Coordinator : Lucia Figueiras (EPUSP)





Benefits

- Providing citizens with a better alternative of interaction with government services
- Software
- Publications
- Technology appropriation
- Human resources





Costs

Spent ~20% of budget granted

BCWS=R\$40,000.00

BCWP=R\$25,000.00

ACWP=R\$20,000.00

SPI=0.63

CPI=1.25





Thank you!

lucia.figueiras@poli.usp.br
flavio.miyamaru@poli.usp.br
daniilo.correa@poli.usp.br
stefan.martins@poli.usp.br
andre.bertuzzi@poli.usp.br
leonardo.leite@poli.usp.br

11.3091.5200

