

Ficha descritiva – Unidade Curricular

Nome da Unidade Curricular	Laboratório Vivo de e-Planning <i>e-Planning Living Lab</i>
Departamento	DCSPT
Docente responsável	Pedro Ferraz de Abreu
Curso/Ramo	Programa Doutoral Conjunto em e-Planning (UL,UNL,UA)
Ciclo	3
Ano curricular	1
Semestre	2
Número de ECTS	9
Carga horária (T/TP/PL/TC/S/E/O/OT)	4h/semana aulas TOTAL: 252 TP: 15; P: 45
Área científica (na estrutura curricular do curso)	ETM – ePlanning Theory and Methods
Objetivos da Unidade Curricular	
<ul style="list-style-type: none"> - To develop analytical capacity and new research methodologies in e-Planning - To be able to evaluate the needs of a community in the context of the e-Planning agenda - To know how to introduce / reformulate ICT in a real community, to contribute to a useful goal, in such way as to evaluate impact and results - To acquire familiarity as much with the design and implementation of the product / solution, as with the analytical study of the institutional/social component and theme of the problem. <p>Students should be able to"</p> <ul style="list-style-type: none"> - Diagnose and critical reflection on planning practices - Be able to do user needs assessment in e-Planning - Have the capacity to prototype e-Planning solutions 	<ul style="list-style-type: none"> - Desenvolver capacidade analítica e novas metodologias de investigação em e-Planning - Saber avaliar as necessidades de uma comunidade no contexto da agenda e-Planning - Saber introduzir / reformular TIC numa comunidade real, para contribuir para um objectivo útil, e por forma a avaliar o impacto e resultados - Adquirir familiaridade tanto com o desenho e implementação de solução/produto com uso de TIC/protótipo, como com o estudo analítico da componente social/institucional e temática do problema tratado. <p>Os alunos deverão ser capazes de:</p> <ul style="list-style-type: none"> - Produzir um diagnóstico e reflexão crítica sobre as práticas de planeamento dominantes da actualidade. - Ter capacidade de avaliar necessidades (user needs assessment) em e-Planning - Ter capacidade de produzir protótipos em e-Planning
Conteúdos Programáticos	
<p>1) Project in Community (Living Lab)</p> <ul style="list-style-type: none"> • characterize a social need • identify the role of ICT and the institutional context • identify an ePlanning kind of problem that can be the object of intervention in 3 months • propose the introduction of ICT tool (hard/soft and/or procedural) • develop prototype • Implement the project • obtain feedback • write paper (with target refereed journal) <p>2) UNA Theory (User Needs Assessment)</p> <p>3) Analytical / Procedural Tools:</p> <ul style="list-style-type: none"> - User Needs Assessment - Interview, Inquiry and Data Mining Guidelines - Spatial Analysis and Geo-referenciation - Institutional Process State-Machine - Narrative Digital Story Telling (Berkeley, L.Colini) <p>4) Hard/Soft Tools:</p> <ul style="list-style-type: none"> - HTML; - RDE, LiveCode; - Data Bases - GIS - Sensors (ex. PM2.5) - Collaborative tools (Video Conf, shared text, etc.) <p>5) Sessions for mutual learning</p> <ul style="list-style-type: none"> -- Practice training led by students in function of their expertise (tools, methods), and available resources. <p>6) Living Lab project support briefings</p>	<p>1) Projecto em Comunidade (Laboratório Vivo)</p> <ul style="list-style-type: none"> -- caracterizar necessidade social -- identificar papel TIC e contexto institucional -- identificar problema ePlanning que possa ser objecto de intervenção útil em 3 meses -- propôr introdução de ferramenta TIC (hard / soft / procedimental) -- desenvolver protótipo -- implementar projecto -- obter feedback -- escrever artigo (para uma revista-alvo com arbitragem científica) <p>2) Teoria UNA (User Needs Assessment)</p> <p>3) Ferramentas Analíticas / Procedimentais:</p> <ul style="list-style-type: none"> - Estudo e Avaliação de Necessidades do Utilizador (User Needs Assessment) - Guião de Entrevistas, Inquéritos e Compilação de Dados (Data Mining) - Análise Espacial e Geo-referenciação - Máquina de Estados e Processos Institucionais - Narrativa Digital (Berkeley, L.Colini) <p>4) Ferramentas Hard/Soft:</p> <ul style="list-style-type: none"> - HTML; - RDE, LiveCode; - Bases de Dados - SIG - Sensores (ex. PM2.5) - Collaborative tools (Video Conf, shared text, etc.) <p>5) Sessões de aprendizagem mútua</p> <ul style="list-style-type: none"> -- Sessões práticas e formação lideradas pelos alunos em função da sua experiência com ferramentas e métodos, e os recursos disponíveis. <p>6) Briefings de apoio aos projectos em laboratório vivo</p>

Bibliografia principal	
<p>Ferraz de Abreu, P. (2014) "Inteligência Distribuída, ou Serviços Digitais dos Cidadãos para a Sociedade", Comunicação convidada, Painel "Serviços Digitais para o Cidadão", Conferência Rio Smart Cities 2014, Rio de Janeiro, 12-13 Maio 2014.</p> <p>Ferraz de Abreu, P. et al. (2013). "Projectos e-Planning - As Primeiras Jornadas / e-Planning Projects: The First Steps". C Press, ISBN 9789899866102</p> <p>Larson, K., Pentland, A.S., Hidalgo, C. et al. (2012) "City Science", MIT Media Lab Living lab Initiative, 2012.</p> <p>Chopra, A. (2011), Memorandum For The National Science & Technology Council Committee On Technology, Executive Office Of The President National Science And Technology Council, USA, June 8, 2011</p> <p>Fayez Shafloot (2010), "Needs Chain Model", Interdisciplinary PhD. Program in Evaluation, Western Michigan University. American Evaluation Association San Antonio, Texas, November 2010</p> <p>Kaufman, R. (2006). Change, Choices, and Consequences: A Guide to Mega Thinking and Planning. Amherst, MA. HRD Press Inc.</p> <p>IMLS et al (2003) "Assessment of End-User Needs in IMLS-Funded Digitization Projects", Institute of Museum and Library Services, October 2003</p> <p>Westbrook, L. (2002), Identifying and Analyzing User Needs: A Complete Handbook and Ready-to- Use Assessment Workbook with Disk. New York: Neal-Schuman Publishers, 2002.</p> <p>Ferraz de Abreu, P. (2002), "New Information Technologies in Public Participation: A Challenge to Old Decision-making Institutional Frameworks - Section 4 Designing an Experiment", PhD Thesis, MIT.</p> <p>HCIL (2001), "User Needs Assessment - computer system case", HCIL ESIP Evaluation Team, 2001.</p> <p>Biblarz, D., Bosch, S., Sugnet, C. (eds). (2001) "Guide to Library User Needs Assessment for Integrated Information Resource Management and Collection Development". Lanham, Md.: Scarecrow Press, 2001.</p> <p>Burke, J., Kirk, A. (2001) "Ethnographic Methods" in CHARM - Choosing Human-Computer Interaction (HCI) Appropriate Research Methods, 2001.</p> <p>Atwater, L. & Babaria, K. (2001) "Controlled Experiments", in CHARM Choosing Human-Computer Interaction (HCI) Appropriate Research Methods, 2001</p> <p>Ceaparu, I., Thakkar, P. (2001) "Logging & Automated Metrics" in CHARM Choosing Human-Computer Interaction (HCI) Appropriate Research Methods, 2001</p>	<p>Kuter, U., Yilmaz, C. (2001) "Survey Methods: Questionnaires and Interviews", in CHARM Choosing Human-Computer Interaction (HCI) Appropriate Research Methods, 2001</p> <p>Ferraz de Abreu, P. & Joanaz de Melo, J. (eds). 2000. Public Participation and Information Technologies 1999. DCEA-FCT-New University of Lisbon & CITIDEP, 599 pags. ISBN 972-98617-0-6</p> <p>Ferreira, Joseph Jr.. (1998). "Information Technologies that Change Relationships between Low-Income Communities and the Public and Non-profit Agencies that Serve Them," Chapter 7 in High Technology and Low-Income Communities. Schön, D., Sanyal, B., Mitchell, W.J. (eds.), Cambridge. MIT Press.</p> <p>W3C (1998) "HTML 4.0 Specification", (Eds) Dave Raggett, Arnaud Le Hors, Ian Jacobs, W3C Recommendation, revised on 24-April-1998</p> <p>Watkins, R., et al. (1998) "Needs Assessment: A Digest, Review, and Comparison of Needs Assessment Literature." Performance Improvement, pp40-53, 1998.</p> <p>Ferraz de Abreu, P. (1998), "Sistema Multimedia Inteligente para Apoio à Consulta Técnica e Pública - Relatório Final", MIT & INETI & DGA-MARN & DCEA-FCT-UNL & CITIDEP, Janeiro 1998.</p> <p>N.C.P.C. (1994) "N.C.P.C. (National Capital Planning Commission, Washington DC) User Needs Assessment Guidelines", MIT Course 11.520 notes, 1994.</p> <p>Vale, L. 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"The Entity-Relationship Model". in Database System Concepts, ch. 2 pp. 21-43. McGraw-Hill. 1986.</p> <p>Castells, M. (1989) "The Informational City: Information Technology, Economic Restructuring and the Urban-Regional Process". 1989. Basil Blackwell.</p> <p>Zuboff, S. (1988). In the Age of the Smart Machine: The Future of Work and Power. Basic Books, New York. 1988.</p> <p>Korth, H.F. and Silberschatz, A. (1986). "The Entity-Relationship Model". in Database System Concepts, ch. 2 pp. 21-43. McGraw-Hill. 1986.</p> <p>Zemke, Ron, and Thomas Kramlinger (1982). "Figuring Things Out: A Trainer's Guide to Needs and Task Analysis". Reading, Mass.: Perseus Books, 1982.</p>
<p>Avaliação Class Participation(10%); Project (50%); Brief Project Report (10%); Article for Journal (30%)</p>	<p>Participação nas aulas (10%); Projecto (50%); Relatório sucinto de Projecto (10%); Artigo para Journal (30%)</p>
<p>Língua de ensino English & Portuguese (If any student does not understand Portuguese, classes will be taught in English)</p>	<p>Inglês e português (se existem alunos que não falam português, as aulas são dadas em inglês)</p>