

Nuclear Engineering

OPERATION AND EXPLOITATION OF THE REACTOR, DOSIMETRY (RPI) AND REACTOR CALCULATIONS

Current Projects

	2003 ITN budget in €
- Fast Neutron Irradiation of Electronic Components for the LHC/CERN in the Portuguese Research Reactor, CERN/P/FIS/43773/2001. March 2002-February 2003 Total budget €20000, ITN budget €20000 Prime contractor: ITN Co-ordinator: J.G. MARQUES Partners: Univ. Complutense Madrid, Spain (J.A.AGAPITO), CERN (J. CASAS)	0,00
- <i>Fast Neutron Irradiation of Electronic Components for the LHC/CERN in the Portuguese Research Reactor</i> , FCT, POCTI/49559/FNU/2002. April 2003-March 2004 Total budget €22000, ITN budget €22000 Prime contractor: ITN Co-ordinator: J.G. MARQUES Partners: Univ. Complutense Madrid, Spain (J.A.AGAPITO), CERN (J. CASAS)	11.000,00
- <i>SIMPLE-Lx: a Portuguese contribution to the SIMPLE dark matter search</i> , POCTI/1999/FIS/32493, Oct. 2001-Sept. 2003 Total budget €74820, ITN budget €74820 Prime contractor: T. GIRARD ITN Co-ordinator: J.G. MARQUES	0,00
- Participation of ITN in the n-TOF experiment (PS213) at CERN (Second Year), Projecto POCTI/FNU/49557/2002, Abril 2003-Março 2004 ITN budget €80000, entidade financiadora FCT (acordo Portugal-CERN) Coordenador ITN: P. VAZ Collaboration with 40 European, Russian, USA and Japanese institutions	40.000,00
- <i>Preliminary design studies of an experimental accelerator-driven system</i> , European Commission Research Directorates. November 2001-October 2004 Total budget €6000000, ITN budget €70000 Prime contractor: Framatome ANP SAS Co-ordinator: B. CARLUEC ITN Co-ordinator: P. VAZ Consortium with 25 EU, Switzerland, and Poland institutions	10.599,72
- <i>Determination of the stopping power of He in oxides and nitrides</i> IAEA 11317/R2Regular Budget Fund. Oct. 2002-Sep. 2003 Total budget €5000, ITN budget €5000 Prime contractor: ITN Co-ordinator: N.P. BARRADAS	1.991,22
- <i>Artificial neural networks for ion beam analysis</i> , POCTI/CTM/40059/2001 Aug. 2002 - Jul. 2004 Total budget €15.540, ITN budget €15.540 Prime contractor: ITN Co-ordinator: N. P. BARRADAS	0,00

RESEARCH PROJECTS

<p>- <i>ThermoPhotoVoltaic cell based on GaSb</i>, European Commission Research Directorates, RTN2-2001-00454. Feb. 2002- Jul. 2004 Total budget: €1475000 , ITN budget €142000 Prime contractor: EPM-MADYLAM/ENSHMG, France Co-ordinator: T. DUFFAR ITN Co-ordinator: N. P. BARRADAS Collaboration with 8 EU institutions</p>	1.380,12
<p>- <i>Emission channeling/blocking using thermal neutron induced nuclear reactions for the study of defect structures in single crystals</i>, POCTI/ FIS/35322/99-00. Dec. 2000- Nov. 2002 Total budget: €44892, ITN budget €44892 Prime contractor: ITN Co-ordinator: A. KLING</p>	13.500,00
<p>- <i>Nuclear European Platform of Training and University Organisations</i>, 6º Programa Quadro Jan. 2004- Junho. 2005. Total budget: €800000, ITN budget €16908 Prime contractor: CEA-INSTN ITN Co-ordinator: J.G. MARQUES Collaboration with 34 European institutes</p>	0,00
<p>- ICCTI</p>	2.400,00
Total budget 80.871,06	

Submitted Projects

	ITN budget in €
<p>- Self-activated KTP-like based laser (INTAS project) ITN Co-ordinator: A. KLING Partners: ICMM Madrid, Spain (C. ZALDO, Profesor de Investigación, team leader; D. SERRANO, Científico titular, crystal growth; J.M. Herreros, PhD student, optical characterization; C. López, PhD student, characterization) , Moscow University, Russia (V. VORONKOVA, researcher, team leader; V.K. Yanovskii, researcher, crystal growth HTSG; I.N. Leontieva, researcher, crystal growth HTSG; E.P. Kharitonova; PhD student, crystal growth HTSG, E.I. Agapova; undergraduate student, crystal growth HTSG; O.G. Rudnitskaya, undergraduate student, crystal growth HTSG). I Miner-Novosibirsk, Russia (A. E. KOKH, researcher, team leader, V.N. Semenenko, researcher, crystal growth TSGG; N. Yu. Maklakova, researcher, crystal growth TSGG; N. G. Kononova, researcher, crystal growth TSGG; S. A. Lozovoy researcher, crystal growth TSGG), I Semi-Novosibirsk, Russia (V.V. ATUCHIN, professor, team leader; L. D. Pokrovsky, researcher, RHEED, AES, XPS; V. G. Kesler, researcher, RHEED, AES, XPS; T. I. Grigorieva, researcher, RHEED, AES, XPS; I. E. Kalabin, PhD student, RHEED, AES, XPS;), IPTI-St.Petersburg, Russia (P. BARANOV, professor; team leader, H.Asatryan, EPR; D. Azamat Postdoc, EPR; V. Preobrazhensky, PhD student, EPR;), AQUATOS Yerevan, Armenia (G. DAMAZYAN, researcher; team leader; E. Arakelova, researcher, X-ray diffraction; V. Kazaryan, PhD student, x-ray diffraction; Z. Khanakhyan, PhD student, X-ray diffraction)</p>	13750
Total budget	

Applied Dynamics

Current Projects

2003 ITN budget in €

- Optimization of Flexible Rotor Balancing, Contractor EDP/CPPE (Jan 2000-April 2003). Total budget €39 903, ITN budget €39 903	0,00
Prime contractor: ITN Co-ordinator: J. ANTUNES Partners: EDP/CPPE, Portugal (J. SOARES)	
- Simulation and Identification of Complex Dynamic Systems (ROTDYN), POCTI/EME/35939/2000. Total budget €43 395, ITN budget €	0,00
Prime contractor: ITN Co-ordinator: J. ANTUNES Partners: IST, Portugal (H. PINA)	
- Modelling of Inclusion (GEOMODELS 2), POCTI/CTA/38695/2001. Total budget €, ITN budget €	5.000,00
Prime contractor: FCL Co-ordinator: F. ORNELAS Partners: ITN, Portugal (J. ANTUNES)	
- Balancing of Rotating Machinery, Contractor CEA, France (July 2003-June 2004). Total budget €15 000, ITN budget €15 000	0,00
Prime contractor: ITN Co-ordinator: J. ANTUNES Partners: CEA, France (L. BORSOI)	
	Total budget 5.000.00

Radiological Protection and Nuclear Safety

Current Projects

2003 ITN budget in €

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- *Assessment of Environmental Contamination Around Abandoned Uranium Mines for Improved Radiological Protection and Planning of Remediation Measures* (IAEA Model Project POR/4/015), 2001-2003. 15000
ITN budget (Equipment and fellows) €15000
Prime contractor: ITN Co-ordinator: F.P. CARVALHO

 - *National Regulatory Control and Occupational Radiation Protection Programmes* (IAEA Regional Project- Europe RER/9/062), 2001-2003. 7500
ITN budget (fellows) €7500
Prime contractor: ITN Co-ordinator: F.P. CARVALHO

 - *European Radon Research and Industry Collaboration Concerted Action- ERRICCA-2:* European Commission Contract n° FIRI-CT-2001-20142, Jan. 2002- Jan. 2005. 6207
ITN budget €18848
Prime contractor: Building Research Establishment (UK) Co-ordinator: CHRIS SCIVYER
ITN Co-ordinator: M.C. FAÍSCA

 - *Epidemiological Study of the Effects of Uranium Mining Residues.* Ministry of the Health Contract 2002-2004. 35700
Total budget €500000
Prime contractor: INSA Co-ordinator: M. FALCÃO
ITN Co-ordinator: F.P. CARVALHO
Partners: INSA, IGM, ARS Centro

 - *Vertical Profiles of Radioactive Aerosol Constituents Over Portugal (VPRACOP)* (2003)
Prime contractor: ITN Co-ordinator: F.P. CARVALHO

Free access to atmospheric research facility (instrumented aeroplane from U.K.)

 - *Novel indazolebisphosphonates for bone mineral metabolism: synthesis, molecular modelling and pharamcological acvtivities.* Projecto **POCTI/QUI/39368/2001**- Jan 2002- Dec. 2004. 4560
Total budget: 78180 €, ITN-6600 €
ITN Co-ordinator: M. A. NEVES
Prime contractor: INETI: M. FÁTIMA TEIXEIRA

 - *A Study of Radioactive Liquids Discharges from Medical Facilities,* Contract-Project n°6/01, March 2002-March 2004
Total budget €23742.77, ITN budget €0 23743
Prime contractor: ITN Co-ordinator: R.TRINDADE
Partners: General –Directorate for Health’s Facilities and Equipment, DGIES (Eng. Nemésio Sanches)

 - *Radioactive Liquid Discharges from Hospitals in Public Sewage of Lisbon Borough Council,* March 2003-March 2004 15432
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RESEARCH PROJECTS

Total budget €15432.04, ITN budget €0

Prime contractor: ITN Co-ordinator: R.TRINDADE

Partners: Lisbon Borough Council ,CML (Eng. Tamissa Madeira)

- Application of *In Situ* gamma spectrometry in hydrogeology

November - December 2003

2333

Total budget €2332.92, ITN budget €0

Prime contractor: ITN Co-ordinator: R.TRINDADE

Partner: Engineering and Natural Resources Consultants, CERN (Dr. A. Oliveira)

Total budget 110475

Submitted Projects

ITN budget in €

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- *Desarrollo e Implementación de un programa para la Vigilancia Radiológica Ambiental en los Archipiélagos Macaronésicos*. INTERREG IIIB Açores-Madeira-Canárias Programme (2000-2006)

- Total budget 1915929 €, ITN budget 886230 €

886230

- Prime contractor: University of Laguna, Canarias; Co-ordinator: J.H. ARMAS
ITN Co-ordinator: M.J. MADRUGA

New Materials and Compounds

Nuclear Solid State Physics Using Ion Beams

Current Projects

2003 ITN budget in €

- <i>Magnetostructural modulation in perovskite derivatives with strong electron correlations</i> , FCT-POCTI/P/35462/CTM/00, Mar. 2001- Feb.2004 Total budget: 199519€ ITN budget 18456€ Prime contractor: Universidade de Aveiro; ITN Co-ordinator: E. Alves	0,00
- <i>Effect of Addition of Si on the Mechanical and Physical properties of TiN and (Ti,Al)N</i> , FCT- POCTI/P/32670/CTM/00, Oct. 2000- Oct. 2003 Total budget: 39904€ ITN budget 5986 € Prime contractor: Universidade do Minho; ITN Co-ordinator: E. Alves	3.592,00
- <i>Surface composition investigations of Li4SiO4 and Li2TiO3 exposed to long term annealing and Compatibility of structural and cladding materials used in irradiation tests with ceramic breeders</i> , EFDA (European Fusion Development Agreement), Jan 2001- July 2003 Total budget: 25000€ ITN budget 25000€ Prime contractor: ITN Co-ordinator: E. Alves	0,00
- <i>Complete Eurofer characterisation of the typical microstructure and modelling of the phase transformation behaviour</i> EFDA (European Fusion Development Agreement), Jan 2001- Dec 2002 Total budget: 15000€ ITN budget 15000€ Prime contractor: ITN Co-ordinator: E. Alves	0,00
- <i>Morphological Characterization and Impurity Studies of SiCSiC composites</i> . EFDA (European Fusion Development Agreement), Jan. 2003- Dec. 2003 Total budget: 12500€ ITN budget 12500€ Prime contractor: ITN Co-ordinator: E. ALVES	16.772,560
- <i>Detailed metallurgical characterisation of the 2 improved ODS batches</i> . EFDA (European Fusion Development Agreement), Jan 2002- Mar 2003 Total budget: 15000€ ITN budget 15000€ Prime contractor: ITN Co-ordinator: E. Alves	16.772,560
- <i>Rare Earth doped Nitrides for high Brigness Electroluminescent emitters(RENIBEL)</i> Research and Training Networks EC. (Março 2002- Março 2005) Total budget: 1498182€ ITN budget 187298€ Prime contractor: Univ. of Strathclyde (UK), ITN Co-ordinator: E. Alves	0,00
ThermoPhotoVoltaic cell based on GaSb, European Commission Research Directorates, RTN2-2001-00454, 1 January 2002 - 30 June 2004 Total budget: 1475000 € ITN budget 142000 € Prime contractor: EPM MADYLAM/CNRS;ITN Co-ordinator: N.P. BARRADAS	0,00
- <i>Development of a new decorative MeNxOy and MeCxOy Thin Film system, with with Me = Ti, Cr, Zr and Al</i> . POCTI/CTM/ 38086/2002 Total budget 52.104€ ITN budget 9.900€ Prime contractor: Universidade do Minho; ITN Co-ordinator: E. ALVES	0,00
- <i>Self-Assembled Silicon Nano-Crystals</i> . POCTI/P/38330/CTM/01, Oct. 2002- Oct. 2005 Total budget 122775 € ITN budget 16625€ Prime contractor: IST(P. Brogueira), ITN Co-ordinator: E. ALVES	6.650,00
e ⁻ -γ Perturbed Angular Correlations and Emission Channeling Studies at ISOLDE/CERN. FCT POCTi-FNU-49503-2002; Apr. 2003 – Apr. 2004 Total budget: 65000 € ITN budget 65000 € Prime contractor: ITN Co-ordinator: J.G. CORREIA	32.500,00

RESEARCH PROJECTS

Superconducting Borides: Properties and Materials Processing. POCTI/CTM/ 39340/2002, Oct.03- Oct.05	0,00
Total budget 120.000 € ITN budget 11.000€	
Prime Contractor: Univ. Aveiro (V. Amaral), ITN Co-ordinator: E.Alves	
New biomarkers from nc II-IV semiconductors. POCTI/CTM/45236/2002	0,00
Total budget 120.000 € ITN budget 48.875,00€	
Prime Contractor: Univ. Aveiro (T. Monteiro), ITN Co-ordinator: E.Alves,	
Total budget	76.287,12

Approved Projects

	ITN budget in €
Characterization of Be ₁₂ Ti EFDA (European Fusion Development Agreement), Jan. 2004- July 2004 Total budget: 65000€ ITN budget 10000€	0,00
Prime contractor: ITN Co-ordinator: E. ALVES	
- Report on surface analysis and characterisation of tokamak tiles exposed to large plasma fluences (>10 ²⁶ m ⁻²).	
EFDA (European Fusion Development Agreement), Jan. 2004- Dec. 2004 Total budget: 65000€ ITN budget 13000€	0,00
Prime contractor: ITN Co-ordinator: E. ALVES	
Ion Implantation in Ceramic Oxides CRUP-AI E-88/04 Total budget 1000 €	0,00.
Prime contractor: ITN Co-ordinator: R.C. Silva, E. Alves	
Partners: Univ. Carlos III, Madrid, Spain (R. González)	
Study of beryllides stability EFDA (European Fusion Development Agreement), Jan. 2004- Dec.2004 Total budget: 32000€ ITN budget 6400€	0,00
Prime contractor: ITN Co-ordinator: E. ALVES	

Submitted Projects

	ITN budget in €
<i>e-γ Perturbed Angular Correlations and Emission Channeling Studies at ISOLDE/CERN,</i> FCT POCTI/ FNU / 50145 / 2003	60000
Total requested budget: 113750 € ITN budget 60000 €	
Prime contractor: ITN Co-ordinator: J.G. CORREIA	
Partners: CFNUL, Lisbon (J.C. Soares)	
Particle detectors and beam profile monitors based on a-SiC:H alloys (MSIC ²) FCT POCTI/03	11382
Total requested budget: 46133 € ITN budget 11382 €	
Prime contractor: IST Co-ordinator: R. Schwarz	
Partners: ITN, Lisbon (E. Alves)	
Total budget	71382

Condensed Matter Physics

Current Projects

2003 ITN budget in €

- <i>SiGe/Si Heterojunctions Grown on Virtual Substrates Strain Relaxation and Self-diffusion, "GESICA". POCTI/CTM/41918/2001</i> Jan. 2003-Dec. 2004	31500
Total budget 78750€ ITN share 78.750 €	
Prime contractor: ITN, Co-ordinator: A.D. SEQUEIRA	
Partners: Warwick University	
- <i>Estructural Characterization and Physical Properties Magnetic Tunnel Junctions. POCTI/CTM/41653/2001.</i>	0,00
Total budget 95.500 €	
Programa POCTI, Sapiens, Domínio Ciência de Materiais e Tecnologia	
Leader institution: Co-ordinators: A.D. SEQUEIRA and N. BARRADAS	
Partners: INESC.	
- <i>Electrical assisted LFZ processing for tailoring textured ceramic materials. POCTI/CTM/35492/99</i>	0,00
Total budget 75 000 € ITN share 5.332,15€	
Leader institution: Univ. de Aveiro, Co-ordinator: F. COSTA	
Partners: ITN. Co-ordinator: A.D. SEQUEIRA	
- <i>Installation of the Two-Axis Diffractometer DIDE, ITN funds</i>	0,00
Prime contractor: ITN Co-ordinator: A.N. FALCÃO	
- <i>Installation of the Small Angle Neutron Scattering Instrument EPA, ITN funds</i>	0,00
Prime contractor: ITN Co-ordinator: F.M.A. MARGAÇA	
- <i>Development of New Instruments: IAEA 11361/RO/R1/R2, Set. 2000- Dec. 2003</i>	4.713,73
Total budget 20910€ ITN share 20910€	
Prime contractor: ITN Co-ordinator: F.G. CARVALHO	
Partner: Research Institute for Solid State Physics and Optics, Budapest, Hungary, L. CSÉR	
- <i>Development of a Variable Geometry Multichannel Neutron Collimator, POCTI/1999/FIS/34449</i>	15000
Out. 2000-Out. 2002 (applic. for extension until June 2003 is pending)	
Total budget approved 30000€ ITN share 30000€	
Prime contractor: ITN Co-ordinator: A.N. FALCÃO	
Total budget 51.213,73	

Approved Projects

ITN budget in €

- <i>MCM-41 - Regularidade e estabilidade de materiais com estrutura mesoporosa ordenada contendo alumínio e titânio. POCTI/CTM/45859/2002</i>	0,00
Total budget 80 000 € ITN share 15750€	
Prime contractor: Évora University, Co-ordinator: M. CARROTT	
ITN Co-ordinator A.D. SEQUEIRA	
- <i>Hybrid materials prepared by irradiation</i>	34.800
POCTI/CTM/44150/2002, Jan. 2004- Dez. 2006	
Total budget: 87 000 €	
Prime contractor: ITN. Co-ordinator: F.M.A. MARGAÇA.	
Partner: Univ. Aveiro, I.M.M. SALVADO	
Total budget 93875	

Solid State

Current Projects

2003 ITN budget in €

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- *COLOURSTONE - Heat induced colour modifications in carbonate stones*, POCTI/CTA/38339/2001. May 2002 – November 2003.
Total budget €30 000, ITN budget €1 437. 0,00
Prime contractor: Centro de Petrologia e Geoquímica / Lab. Mineralogia e Petrologia, IST.
Coordinator: L. AIRES DE BARROS.
Partners: ITN (J. C. WAERENBORGH)
- *Magnetic properties of metalloproteins: an integrated approach*. POCTI / 35324 / FIS / 2000. January 2001 – December 2004. 0,00
Total budget €89 780, ITN budget €8 105.
Prime contractor: Fundação da Fac. Ciências da Universidade de Lisboa.
Coordinator: L. FERREIRA
Partners: ITN (J. C. WAERENBORGH)
- *MODELWASTE – Modelling of pollutant dispersion around waste disposal sites: a mineralogical, hydrogeological and chemical study*, POCTI/CTA/43390/01. February 2003 – July 2004. 700,00
Total budget €30 000, ITN budget €1 370.
Prime contractor: Fund. Fac. Ciências da Univ. Lisboa. Coordinator: J. FIGUEIRAS.
Partners: ITN (J. C. WAERENBORGH)
- *Study of the Dy-Fe-Sn phase diagram*, POCTI/CTM/38320/2001. May 2003 – May 2006. 16.475,00
Total budget €41 188, ITN budget €41 188.
Prime contractor: ITN. Coordinator: L. C. J. PEREIRA.
- *Molecule magnets based on decamethylmetallocenes and DCNQI derivative planar acceptors*, POCTI/QUI/39601/2001. April 2002 – April 2005. 21.420,00
Total budget €71.400, ITN budget €71.400.
Prime contractor: ITN. Coordinator: V. GAMA.
Partners: Instituto Superior Técnico (M. T. DUARTE)
- *Thiophenic Dithiolates as Building Blocks in Molecular Materials: Physical Properties - Crystal Structure correlation*. POCTI/QUI/45108/2002. September. 2003-September 2006 35.218,00
Total budget €88 045, ITN budget €88 045
Prime contractor: ITN. Co-ordinator I. C. SANTOS.
- *Films and multilayers with U and Fe: preparation and magnetism*, POCTI/CTM/12068/2001. March 2001- March 2004 8.122,00
Total budget €26 900, ITN budget €4 800
Prime contractor: ITN Co-ordinator: A. P. GONÇALVES
Partners: Fundação da Faculdade de Ciências da Universidade de Lisboa (M. GODINHO)
- *Synthesis, Crystal Growth and Characterization of New f-Element Borides and Borocarbides with Ni, Pd or Pt*. POCTI/QUI/46066/2002, June 2003- June 2005 11.376,00
Total budget €28 440, ITN budget €28 440
Prime contractor: ITN Co-ordinator: A. P. GONÇALVES
- *Preparation and study of new intermetallic compounds with U, Fe, and Al, Si or B,*
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RESEARCH PROJECTS

<p>- GRICES/Embaixada de França Programa 2003, projecto 736 B3, January 2003- December 2003 Total budget €750, ITN budget €750 Prime contractor: ITN Co-ordinator: A. P. GONÇALVES</p>	1.124,00
<p>- <i>Materials for organic Electronics NEOFETS</i>, POCTI/CTM/41117/2001. Total budget €120 000, ITN budget €60 000. Prime contractor: Instituto de Telecomunicações. Coordinator: L. J. ALCÁCER.</p>	18 240
<p>- Partners: ITN (M. ALMEIDA), Universidade do Algarve, Universidade Técnica de Lisboa-Instituto Superior Técnico. - <i>2CHIMAG Two chain compounds under high magnetic field</i>, POCTI/FAT/39115/2001. Sept. 2002-Aug. 2005 Total budget €90 000, ITN budget €60 000. Prime contractor: ITN. Coordinator: R. T. HENRIQUES.</p>	0,00
<p>- Partners: Instituto Superior de Engenharia de Lisboa (M. MATOS). - <i>Spin-Ladder Compounds</i>, POCTI/QUI/35342/99. Total budget €109.735,54, ITN budget €109.735,54. Prime contractor: ITN. Coordinator: M. ALMEIDA.</p>	0,00
<p>- <i>Multisulfur based molecular conductors</i>, POCTI/CTM/35452/99. Total budget €89 784, ITN budget €45 000. Prime contractor: ITN. Coordinator: M. ALMEIDA.</p>	18.000,00
<p>- Partners: Instituto Superior Técnico (R. T. HENRIQUES) - <i>Pulse Tube Cryocooler Development</i>, POCTI/EME/35903/99. Total budget €99 760, ITN budget €54.145 . Prime contractor: ITN. Coordinator: G. BONFAIT.</p>	
<p>- Partners: FCT da Universidade Nova de Lisboa - <i>Heavy Fermions Properties of the Systems $(U_xTh_{1-x})Pt_2In$ and $(U_xTh_{1-x})_2Pd_2Sn$</i>, POCTI/P/FIS/12070/2001 Total Budget: 32.421,86 ITN Budget: 16.210,93 Partners: FFCUL (M. Godinho) Coordinator: ITN (G. Bonfait)</p>	4.337,00
<p>- Contrat N° G5RT – CT2000-05001-Thematic Network MULTIMETOX Total Budget €5.806,62</p>	4.996,72
<p>- <i>GRICES/Consejo Superior de Investigaciones Cientificas Moleculares Slids with Ladder Structure</i>– Programa 2003 – Jan. 2002-Dec. 2003</p>	1.397,00
Total budget 141.405,72	

Submitted Projects

	ITN budget in €
<p>- <i>UX2 (X=Fe, Ge) and UFe12-xAlx films: preparation and characterization of magnetic and electrical transport properties</i></p>	53.445

RESEARCH PROJECTS

ITN Co-ordinator: A. P. GONÇALVES

Molecular Approach to Nanomagnets and Multifunctional Materials - MAGMANET

- Proposal of NOE 500341-2 Priority 3 – NMP, in collaboration with 15 other institutions, lead by D. Gatteschi, Florence

- ITN Co-ordinator: M. ALMEIDA

Multifunctional Molecular Materials combining conducting properties with magnetic or optical properties - MULTIMOL

- Proposal of Research Training Network (RTNs), FP6-504721, in collaboration with 7 other laboratories, lead by E. Coronado, Univ Valencia, Spain.

- ITN Co-ordinator: M. ALMEIDA

Rational Design of Nanomaterials: Experiments and Theory - RADNET

- Proposal of NOE 500322-1, Call Identifier: FP6- NMP-1 in collaboration with 25 other institutions, lead by M. Schroeder, Univ. Nottingham, U.K.

- ITN Co-ordinator: M. ALMEIDA

- *New metal bisdithiolate for conducting and magnetic materials,*

- Proposal to French bilateral programme Pessoa to collaborate with Univ. Angers

- ITN Co-ordinator: M. ALMEIDA

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Total budget 180 000


Environmental Sciences

Atmospheric Elemental Dispersion

Current Projects

	Budget in 2003 in €
- <i>ValorSul – Monitoring of air quality at the incinerator of S. João da Talha, 1999-2003</i>	
Total budget: 424 214 €	32 578
Prime contractor: ITN Co-ordinator: M. C. FREITAS	
Partners: IDAD	
- <i>ValorSul – Monitoring of trace elements of urban solid waste treatment plant, 1999-2003</i>	
Total budget: 8 828 €	4 750
Prime contractor: ITN Co-ordinator: M. A. GOUVEIA	
- <i>BIOCAL – Calibration of in situ biomonitors for quantification of the atmospheric dispersion of heavy metals, POCTI/CTA/38411/2001 Feb. 2002- Feb. 2005</i>	
Total budget: 80 000 € ITN budget 30 954 €	0
Prime contractor: ITN, Co-ordinator: M.C. FREITAS	
Partners: CIIMAR, LAQUIPAI, CVRM	
- <i>Implementation of wastewater treatment using radiation, POR/8/010, IAEA, 2003-2006</i>	
Total budget 150 000 €	0,00
Prime contractor: ITN Co-ordinator: M. L. BOTELHO	
* A HPGe in the value of 17 320€	
- <i>Studies and analyses of environmental samples, bilateral Slovenia/Portugal project, 2001- 2003</i>	
Total budget €	500€
Prime contractor: ITN (M. Carmo Freitas) and Institute Josef Stefan (IJS) (Milena Horvat)	
One week stay of Portuguese researchers at IJS (accommodation)	
Total budget in 2003	37.328,00
	+HPGe

Submitted Projects

	ITN budget in €
- <i>Effect of heavy metals on plants and soil in an abandoned Alentejo mine, FCT</i>	
	33 380

RESEARCH PROJECTS

<p><i>-Effect of heavy metals on plants and soil in an abandoned Alentejo mine, FCT</i></p> <p>Total budget: 96 714</p> <p>Prime contractor: Univ. Évora ITN Co-ordinator: M.C. FREITAS</p> <p>Partners: ITN</p>	<p>33 380</p>
<p><i>-Biomonitoring of Madeira Island and Azores islands (Terceira and Sta Maria). Intercalibration of biomonitor species, FCT</i></p> <p>Total budget 142 757 €</p> <p>Prime contractor: Univ. Açores, ITN Co-ordinator: M.C. FREITAS</p> <p>Partners: ITN, CVRM</p>	<p>60 469</p>
<p><i>-INAA capability in glass fiber filters analysis. Validation of results by spectrometric techniques and atmospheric trajectories analysis, FCT</i></p> <p>Total budget 132 012 €</p> <p>Prime contractor: ITN Co-ordinator: M.C. FREITAS</p> <p>Partners: Instituto de Meteorologia, CVRM, LAQUIPAI</p>	<p>47 741</p>
<p><i>-Accumulation of farming-activity residuals and airborne chemicals in fresh horticultural products, FCT</i></p> <p>Total budget 192 080 €</p> <p>Prime contractor: CVRM ITN Co-ordinator: M.C. FREITAS</p> <p>Partners: ITN, Univ. Algarve, LAQUIPAI</p>	<p>62 354</p>
<p><i>-Cadmium, Mercury and Lead: Neutron Activation Analysis Optimization, FCT</i></p> <p>Total budget 55 352 €</p> <p>Prime contractor: ITN Co-ordinator: M.C. FREITAS</p>	<p>55 352</p>
<p><i>-Implementation of Reactor PGNA technique at Portuguese Research Reactor for environmental applications using k_0 standardized method, FCT</i></p> <p>Total budget 80 431 €</p> <p>Prime contractor: ITN Co-ordinator: M.C. FREITAS</p> <p>(In re- evaluation process)</p>	<p>80 431</p>
<p><i>-Pollen grains as adsorbers, transporters and bioindicators of atmospheric chemical pollution, FCT</i></p> <p>Total budget 167 357€</p> <p>Prime contractor: Porto University ITN Co-ordinator: M.C. FREITAS</p>	<p>22 600</p>
<p><i>-Optimization of neutron activation analytical technique at the Portuguese Research Reactor. Extend application to environmental, food and health studies, FCT</i></p> <p>Total budget 654 500€</p> <p>Prime contractor: ITN Co-ordinator: M.C. FREITAS</p>	<p>654 500</p>
<p><i>-Identification of remote sources in Azores archipelago. Implementation of Compton suppression INAA and Compton suppression ENAA, IAEA</i></p> <p>Total budget 100 600€</p> <p>Prime contractor: ITN Co-ordinator: M.C. FREITAS</p>	<p>100100</p>

Optimization of neutron activation analytical techniques at the Portuguese research reactor. Extended application to environmental, food, and health studies, FCT

Total budget 40 000€

Prime contractor: ITN Co-ordinator: M.C. FREITAS

Total budget 1 063 078

Environmental Analytical Chemistry

Current Projects

2003 ITN budget in €

- <i>Consequences of River Discharge Modifications on Coastal Zone and Continental Shelf (CRIDA)</i> , PLE/8/00. October 2001-October 2004 Total budget: 623 497 € ITN budget: 242 133 € Prime contractor: ITN, Co-ordinator: M.F. ARAÚJO Partners: Inst. Hidrográfico, Univ. do Algarve, Univ. de Aveiro, Inst. de Meteorologia, ICAT, Fundação da Fac. de Ciências da Univ. de Lisboa.	0,00
- <i>Late Quaternary Environmental Changes from Estuarine and Shelf Sedimentary Record</i> , ENVI-CHANGES. September 2001-September 2004 Total budget: 369 110 € ITN budget: 22.396,03 € PLE/12/00 Prime contractor: ITN, Co-ordinator: M.F. ARAÚJO Partners: Museu Nacional de História Natural, Inst. Hidrográfico, Univ. de Aveiro, Fundação da Fac. de Ciências da Univ. de Lisboa, Univ. de Bordeaux I.	0,00
- <i>Groundwater Resources as Indicators and Archives of Paleoclimatic Changes (NW-Portugal)</i> , POCTI/39435/CTA/2001. May 2002-May 2004 Total budget: 30 000 € ITN budget: 20 060€ Prime contractor: ITN, Co-ordinator: P.M. CARREIRA Partners: Instituto Superior Técnico, Inst. de Ciências da Terra e do Espaço.	9.000,00
- <i>The Isotopic Composition of Precipitation in the Mediterranean Basin in Relation to Air Circulation Patterns and Climate</i> , IAEA POR/11368/RO. January 2001-December 2004 ITN total budget: 15 000 € Prime contractor: International Atomic Energy Agency – Isotopic Hydrology Section, ITN Co-ordinator: P.M. CARREIRA Partners: University of Earth Sciences, Geography and Cartography (Algeria), Radiocarbon and Tritium Laboratory (Croatia), Egyptian Meteorological Authority (Egypt), Univ. d'Avignon (France), Institute for Environment and Development (Greece), Environmental and Energy Study Institute (Israel), Univ. La Sapienza (Italy), National Center for Nuclear Science, Energy and Technology (Morocco), Dep. of Environmental Sciences (Slovenia), Centro de Estudios y Experimentación de Obras Públicas (Spain), International Atomic Energy Agency (Turkey).	8.534,88
- <i>Indígenas e Fenícios no Almaraz</i> , ITN/IPA. January 2003-December 2003 Total budget: 3 750 € ITN budget: 3 750 € Prime contractor (archaeologist): L.M. BARROS, ITN Co-ordinator: M.F. ARAÚJO	1250
- <i>O Alto Paiva – A Ocupação Humana no 1º Milénio a.C.</i> , ITN/IPA. January 2003-December	1250

RESEARCH PROJECTS

2004

Total budget: 2 500 € ITN budget: 2 500 €

Prime contractor (archaeologist): XXX, ITN Co-ordinator: M.F. ARAÚJO

- *Crasto de Palheiros*, ITN/IPA. January 2003-December 2004

Total budget: 2 500 € ITN budget: 2 500 €

1250

Prime contractor: Universidade do Porto, ITN Co-ordinator: M.F. ARAÚJO

- *Caracterização de um Conjunto de Artefactos Metálicos do Castro de Pragança/Cadaval*, ITN/IPA. January 2003-December 2004

Total budget: 2 500 € ITN budget: 2 500 €

1250

Prime contractor: Museu Nacional de Arqueologia, ITN Co-ordinator: M.F. ARAÚJO

- *Estudo das Modificações do Caudal Fluvial na Zona Costeira e Plataforma Adjacente*, GRICES-IFREMER. January 2003-December 2003

ITN total budget: 775 €

775

Prime contractor: ITN, Co-ordinator: M.F. ARAÚJO

Partners: Univ. de Bordeaux I.

Total budget 23.309,88

Approved Projects

ITN budget in €

- *Assessing the Impacts of Agriculture on Groundwater Quality Using Nitrogen Isotopes*, POCTI/AGG/47223/2002. Janeiro 2004-Dezembro 2006

Total budget: 105 000 € ITN budget 28 000 €

28 000

Prime contractor: ITN, Co-ordinator: P.M. CARREIRA

Total budget 28 000

Submitted Projects

ITN budget in €

- *Centre for Isotopes and Trace Elements Research*, CISTER.

ITN Co-ordinator: M.F. ARAÚJO

2 335 960

- *Métodos de Aquisição de Dados para Caracterização de Geosistemas com Vista ao Desenvolvimento Sustentável de Recursos Naturais*

ITN Co-ordinator: P.M. CARREIRA

2 058 896

- *Estudo Paleoambiental de Alta Resolução nos Estuários do Douro e Minho durante o Holocénico Tardio*.

ITN Co-ordinator: M.F. ARAÚJO

330 720

- *Microecologia e Dinâmica Litoral: Definição de Indicadores com Aplicação de Reconstituição Paleogeográfica e Paleoclimática do Quaternário*.

ITN Co-ordinator: M.F. ARAÚJO

310 933

- *Papel das Áreas Montanhosas na Recarga de Recursos Hídricos – Norte/Centro de Portugal*, HIMOCATCH.

ITN Co-ordinator: P.M. CARREIRA

308 831

RESEARCH PROJECTS

- *Simulação de Recarga em Aquíferos Cársicos Usando Modelos Discretos – Contínuos Directos e Inversos.* 121 310

ITN Co-ordinator: P.M. CARREIRA

- *Gases Dissolvidos em Sistemas Aquosos Subterrâneos – Águas Termominerais Gasocarbónicas (N – Portugal), DISGAS.* 69 950

ITN Co-ordinator: P.M. CARREIRA

Total budget 5 536 600

ELEMENTAL CHARACTERIZATION AND SPECIATION USING ION BEAMS CEEFI

Current Projects

2003 ITN budget in €

Laboratório de Caracterização e Especificação de Aerossóis - LCEA (componente de financiamento próprio, baseado em serviços) 16 929.31

Total budget 16 929.31

Approved Projects

ITN budget in €

Total budget 0

Submitted Projects

ITN budget in €

- *Laboratório de Caracterização e Especificação de Aerossóis - LCEA* 1 013 500

- *submetido ao Programa Nacional de Re-equipamento Científico a 3 de Abril de 2002*

- *(ainda sem resposta)*

24 months

ITN Co-ordinator: MIGUEL A. REIS

- *Patologia Respiratória, Externalidades e Particulado Atmosférico – PREPAR* 98 491

- *submetido à Fundação Calouste Gulbenkian – Serviço de Saúde e*

RESEARCH PROJECTS

Desenvolvimento Humano

- *(não contemplado no leque de projectos aprovados em 2003)*

3 anos

ITN Co-ordinator: MIGUEL A. REIS

- *Métodos Multielementares para Estudo de Processos Atmosféricos - MultiMAPS* 245 194
- *submetido à FCT, Programa “Projectos de investigação em todos os domínios científicos – 2002” na área de Ciências da Terra, do Mar e da Atmosfera, a 27 de Maio de 200*
- *(avaliação realizada nos dias 12 e 13 de Dezembro de 2003, aguarda resposta)*
- *36 meses*

ITN Co-ordinator: MIGUEL A. REIS

- *INAA and PIXE for the microcharacterization of trace elements and their species in environmental samples*
- *submetido ao GRICES, Convénio de Cooperação científica e técnica Portugal-Eslovénia, Programa 2004/2006*
- *(em avaliação)*

ITN Co-ordinator: MIGUEL A. REIS

Total budget 1 357 185

Environmental and Health Sciences

Health and Biomedical Studies Using Ion Beams

Current Projects

	2003 ITN budget in €
<p>- Bioavailability of lead in small mammals at a mine contaminated area in Alentejo (Central Portugal), POCTI/BSE/39917/2001. Jan. 2003- Dec. 2005 Total budget €120 000, ITN budget €10 250</p> <p>Prime contractor: CBA-FFC/UL Co-ordinator: Co-ordinator: M.L. MATHIAS</p> <p>Partners: ITN (T. PINHEIRO), CQB-FFC/UL (M.C. SANTOS), CEA-Univ. Évora (A. MIRA), CHPEBD-Univ. Coimbra (A. CABRITA)</p>	3 750
<p>- Markers of the pro-oxidant/antioxidant balance and characterisation of the allelic profile of apoE in inhabitants of Lisbon and Ponta Delgada, POCTI/ESP/41008/2001 /Set.2002-Aug.2004 Total budget €49 880, ITN budget €10 250</p> <p>Prime contractor: CBA-FFC/UL Co-ordinator: Co-ordinator: A.M.VIEGAS-CRESPO</p> <p>Partners: ITN (T. PINHEIRO), CQB-FFC/UL (M.C. SANTOS), Univ. Açores (L. PAVÃO), INSA (M.O. RODRIGUES)</p>	0
<p>- <i>Contribution to the study of inflammation biomarkers in the Chronic Obstructive Pulmonary Disease (COPD)</i>, FCG-Calouste Gulbenkian Foundation SDH.IC.I.01.22 / Dec. 2001- Dec. 2004 Total budget €44 889*, ITN budget €3 500*</p> <p>Prime contractor: AIDFM-FM/UL Co-ordinator: A. BUGALHO DE ALMEIDA</p> <p>Partners: ITN (T. PINHEIRO), CQB-FFC/UL (M.C. SANTOS), CBA-FFC/UL (A.M.VIEGAS-CRESPO)</p> <p>* Budget controlled by FCG through prime contractor</p>	0,00
<p>- Optimisation of PIXE and Nuclear Microprobe set-ups to Biomedical applications, Portugal-Spain Bilateral Cooperation, ICCTI/CSIC, 2002-2003 Total budget €2740, ITN budget €1369</p> <p>Prime contractor: ITN Co-ordinator: T. PINHEIRO</p> <p>Partners: CAN-Univ. Seville, Spain (M.A. RESPALDIZA)</p>	1.397
<p>- <i>Quality of skin as a barrier to ultra-fine particles (NANODERM)</i>, EC/QLK4-CT-2002-02678, 2003-2005 Total budget €1 097994, ITN budget €86997</p> <p>Prime contractor: Univ. Leipzig, Germany Co-ordinator: T. BUTZ</p> <p>Partners: INP, Poland (Z.. STACHURA), Univ. Debrecen, Hungary (J. HUNYADI), Univ. Bordeaux I, France (J.E. SURLÈVE-BAZEILLE), Univ. Bordeaux I/CNRS, France (P. MORETTO) ITN, Portugal (T. PINHEIRO)</p>	34.769,50
	Total budget 39 917

Approved Projects

ITN budget in €

Inorganic Chemistry, Radiochemistry and Radiopharmacy

Inorganic and Organometallic Chemistry

Current Projects

	Budget in 2003 in €
- <i>FT-ICR Mass Spectrometry Studies of the Gas-Phase Chemistry of Actinide Ions</i> , POCTI/35364/QUI/2000, Jan. 2001-Mar. 2003 Total budget 49880 € ITN budget 49880 € Prime contractor: ITN Co-ordinator: Joaquim Marçalo	0,00
- <i>Molecular Energetics</i> , POCTI/1999/QUI/35406 Nov.2000 – Nov. 2003 Total budget: 99.760 € ITN budget 4.340 € Prime contractor: IST ITN Co-ordinator: J. P. Leal	0,00
- <i>Oxidative coupling of methane (OCM) using f block element intermetallic compounds as catalytic precursors</i> , FCT/POCTI/QUI/35394/1999 Nov. 2000- Oct. 2003 Total budget: 64.844 PTE; ITN budget: 64844 € Prime contractor: ITN Co-ordinator: Joaquim Branco	0,00
- <i>Synthesis of Heteroscorpionate Ligands. Lanthanide Compounds With Applications in Ziegler Natta Catalysis and C-H Activation</i> , POCTI/QUI/36015/99, Nov. 2001-Nov. 2003 Total budget 54.868 euros, ITN budget 54.868 euros Prime contractor: ITN Co-ordinator: N. Marques	5500
- <i>Tratamento e Valorização de Resíduos Plásticos</i> , Plastval/SPV Jan 2000- Dez 2002 (extended 2003-4) Total budget: 65143 € ITN budget 65143 € Prime contractor: ITN Co-ordinator: A. Pires de Matos	24.210,70
- <i>Immobilised Surface Rare Earth and Actinide Aryloxides. Activation of Small Molecules (CO₂, CH₄, C₂H₆)</i> , POCTI/QUI/42919/2001 Mar 2002 - Mar 2005 Total budget 41000 € ITN budget 41000 € Prime contractor: ITN Co-ordinator: Teresa Almeida Gasche	20500
- <i>Mono- and dianionic triazacyclononane based ligands as ancillaries in lanthanide and transition metal chemistry</i> - POCTI/QUI/46206/2002 Oct. 2005 Total budget 46080 euros, ITN budget 23040 euros Prime contractor: ITN Co-ordinator: N. Marques	18.432,00
- <i>Uranium(III) Complexes Supported by Scorpionate and Heteroscorpionate ligands: Steric and Electronic Control of Metal Centre Reactivity</i> Total budget 37240 euros, ITN budget 37240 euros Prime contractor: ITN Co-ordinator: N. Marques	14.896,00
Total budget	78.038,70

Rejected Projects

	ITN budget in €
- <i>Simultaneous Thermochemical and Catalytic Studies</i> , ALFA/2002	
Total budget: 134 550 € ITN budget 134 550 €	134 550
Prime contractor: ITN Co-ordinator: J. P. Leal	
- <i>Quality maintenance on stored grains</i> , ALFA/2002	
Total budget: 94 150 € ITN budget 61 025 €	61 025
Prime contractor: ITN Co-ordinator: J. P. Leal	
	94820
(PROTEST PENDING)	
-Radioactive Waste Vitrification, FCT, 3 years	
Total budget 94820 €	
Prime contractor: ITN	
Co-ordinator: J. MARÇALO	
- <i>Catalytic Oxidation of Volatile Organic Compounds</i> , FCT/POCTI/QUI/48977/2002	149113
Requested Funding 149113 €	
Prime contractor: ITN Co-ordinator: Joaquim Branco	129550
- <i>Catalysts Activation by Gamma Radiation</i> , FCT/POCTI/QUI/48979/2002	
Requested Funding 129550 €	74008
Prime contractor: ITN Co-ordinator: Joaquim Branco	
- <i>Provenance Studies of Portuguese Glasses</i> , POCTI/HAR/47263/2002	
Total Budget: 129883€ ITN budget 74008 €	
Prime contractor: ITN, Co-ordinator: António Pires de Matos	
	Total budget 447491

Inorganic and Radiopharmaceutical Chemistry**Current Projects**

	2003 ITN budget in €
- <i>Re and Tc Complexes for Peptide Based Radiopharmaceuticals: Chemistry, Radiochemistry and Biological Studies in vivo and in vitro</i> : POCTI/35423/QUI/99, October 2000 – October 2003	
Total budget 91 679 € ITN budget 91 679 €	18.380
Prime contractor: ITN Co-ordinator: I. SANTOS	
<i>Radiopharmaceuticals for Treatment of Bone Cancer Pain and/or Therapy Based on Macrocyclic Lanthanide Complexes</i> : POCTI/35859/SAU/99, March 2002- March 2005	26.047
Total budget 86 616 € ITN budget 43.425 €	

RESEARCH PROJECTS

Prime contractor: ITN. Co-ordinator: I. SANTOS

Partner: Instituto Tecnologia Química e Biológica, Oeiras, R. DELGADO

- *Organometallic Rhenium and Technetium Complexes: Design of Radiopharmaceuticals for Brain Receptor Imaging*: POCTI/QUI/42939/2001, Feb. 2002- Feb. 2005 12.810

Total budget: 42.700 € ITN budget 42.700 €

- Prime contractor: ITN Co-ordinator: A. PAULO

- *Molecular Recognition and Sequestering of Metallic Ions Towards Potential Biomedical Applications*: POCTI/35344/QUI/99, Nov. 2000 – Nov. 2004 300

Total budget 74.820 € ITN budget 6.235 €

ITN Co-ordinator: L. GANO.

Prime contractor: Instituto Superior Técnico, Lisboa, M. A. SEABRA

- *Evaluation of the Genotoxic and Antiestrogenic Potential of Triphenylethylene Derivatives and their Metabolites*: POCTI/33544/QUI/99, October 2000 – October 2004 0,00

Total budget 104 748 € ITN budget 36 786 €

ITN Co-ordinator: M.C. MELO E SILVA

Prime contractor: Instituto Superior Técnico, Lisboa, M. M. MARQUES

- *Specific Organometallic Compounds, Research Contract MMTYCO*, June 2003-June 2004 38.448

Total budget 63 500 € ITN budget 63 500 €

Prime contractor: ITN Co-ordinator: I. SANTOS

- *Virtual Radiopharmacy: A mindful Learning Environment: V Framework Programme Programme, EC Shared COST RTD ACTION: IST-2001-32291*, Jan. 2002- Dec. 2004 0,00

Total budget 2 992 787 € ITN budget 80 167 €

ITN Co-ordinator: LURDES GANO

- Prime contractor: St. Bartholomew's Hospital. Co-ordinator: S. MATHER

Total budget 95.985

Approved Projects

ITN budget in €

- *Co-Ordination Action on Education and Training in Radiation Protection and Radioactive Waste Management, VI Framework Programme: FP6/508835*, March. 2004- June. 2005 10 000

Total budget 297 600 € ITN budget 10 000 €

Prime contractor: GRC, UK, ITN Co-ordinator: I. SANTOS

Submitted Projects

ITN budget in €

- Targeted Internal Radiotherapy Using Alpha-emitting Isotopes, VI Framework Programme: 380 500

RESEARCH PROJECTS

European Research Life Sciences, Genomics and Biotechnology for Health, Priority 1 Total budget 5 091 450 € ITN budget 380 500 € Prime contractor: DKFZ German Cancer Research Center, Germany, ITN Co-ordinator: I. SANTOS	
Total budget	380 500

Cultural Heritage and Sciences

Cultural Heritage and Sciences

Current Projects

2003 ITN budget in €

-
- *COLASU – Sustainability of Mediterranean coastal lagoon ecosystems under semi-arid climate*, ICA3-CT-2002-10012. July 2002 – July 2005.
Total budget: 795 000 € ITN budget 124 404 € 30.906,72
- ITN Co-ordinator: M.I. PRUDÊNCIO.
- Prime contractor: Centre Nationale de la Recherche Scientifique, Univ. Louis Pasteur, Strasbourg, J. DUPLAY.
- Partners: France, Spain, Malta, Morocco and Tunisia.
- *The Archaeological Occupation of Castro Marim from the Iron Age to the Roman Epoche*, POCTI/HAR/38334/2001 0,00
Total budget €30 000, ITN budget €12 000
- ITN Co-ordinator: M.I. PRUDÊNCIO.
- Prime contractor: Centro de Arqueologia, Fac. Letras, Univ. Lisboa, A. ARRUDA
- ITN-IPA Protocol
- *Produção oleira no arrabalde ocidental da Lisboa islâmica.*
- ITN Co-ordinator: M.I. DIAS
- Archaeologist: JACINTA BUGALHÃO
- *Cerâmica romana de S. João de Perrelos (V.N.Famalicão).*
- ITN Co-ordinator: M.I. DIAS
- Archaeologist: FELISBELA LEITE
- *Muçulmanos e cristãos na península da Arrábida: o castelo de Palmela e a ruralidade envolvente* ITN Co-ordinator: M.I. DIAS
- Archaeologist: ISABEL FERNANDES
- *Ambientes funerários no Povoado dos Perdigões: cerâmicas do Neolítico final – Calcolítico do SO*
- ITN Co-ordinator: M.I. DIAS 35.000,00
- Archaeologist: M. SILVA & A.C. VALERA
- *Cerâmica da colónia Fenícia do centro histórico de Tavira.*
- ITN Co-ordinator: M.I. DIAS
- Archaeologist: MARIA MAIA
- *Cerâmicas de sítios Pré-Históricos (Neolítico-Bronze Final) na área do PAVC.*
- ITN Co-ordinator: M.I. DIAS
- Archaeologist: ANTÓNIO F. CARVALHO.
- *A Alcáçova de Santarém durante a Idade do Ferro,*
- ITN Co-ordinator: M.I. DIAS
- Archaeologist: ANA ARRUDA
-

- *Caracterização de cerâmicas arqueológicas – ânforas Lusitanas – da Villa romana da Quinta das Longas, Elvas.*

ITN Co-ordinator: M.I. DIAS

Archaeologist: ANTÓNIO CARVALHO.

- *Olaria romana do estuário do Tejo: centros de produção e consumo – Porto dos Cacos, Quinta do Rouxinol e núcleo arqueológico da Rua dos Correiros.*

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: JORGE RAPOSO

- *Projecto de estudo das pastas de cerâmica recolhidas nas entulheiras do forno romano da Ajuda (Peniche).*

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: GUILHERME CARDOSO

- *Olaria romana do estuário do Tejo: centros de produção e consumo – Porto dos Cacos, Quinta do Rouxinol e núcleo arqueológico da Rua dos Correiros.*

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: JORGE RAPOSO

- *Caracterização de cerâmicas arqueológicas de Sellium (Tomar).*

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: SALETE DA PONTE

- *Zambujalinho – centro produtor de cerâmicas do Vale do Sado.*

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: ISABEL FERNANDES.

- *A Alcáçova de Santarém durante a época Romana.*

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: ANA ARRUDA

ERA research Projects – Alqueva Dam impact

3.808

– *Archaeometric study of ceramics from the proto-historic occupation from the left side of the Guadiana basin (Moura) – Block 9.*

Total budget: 3 990 €

ITN Co-ordinator: M.I. DIAS

Archaeologist JOÃO ALBERGARIA

– *Archaeometric study of ceramics from recent pre-history of the left side of the Guadiana basin (M. Tosco, M. Valadares, Mercador) – Block 5.*

Total budget: 3 990 €

ITN Co-ordinator: M.I. DIAS

Archaeologist A. C. VALERA

– *Archaeometric study of ceramics from the roman occupation of the right side of the Guadiana basin (Xerez de Baixo) – Block 10.*

Total budget: 3 990 €

ITN Co-ordinator: M.I. DIAS

Archaeologist SOFIA GOMES and SANDRA BRAZUNA.

RESEARCH PROJECTS

- *Effects of Different Pollution Sources in the Decay of Igneous Stone Monuments*, - 5.865,00
POCTI/CTA/35600/99

Total budget 175 x 10³ € ITN budget 19837 €

ITN Co-ordinator: M.I. PRUDÊNCIO.

Prime contractor: Univ. Minho, Braga, C.A. ALVES

Partner: Univ. Açores, J. V. CRUZ

- *Luminescence dating - archaeological remains and museum artifacts. Interlaboratory comparison and validation of measurement and sampling protocols*. Protocol ICCTI 0,00
Portugal/France Embassy - Project 521 A0

ITN Co-ordinator: M.I. PRUDÊNCIO

CNRS (France) Co-ordinator: J. CASTAING

-*Non-point Pollution in the Hydrosphere Due to Agricultural Practices: Source Characterization and Pollutants Mobility in the Vadose Zone*. 0,00
POCTI/36493/CTA/2000

Total budget 69831 € ITN budget 9.477 €

ITN Co-ordinator: M.I. PRUDÊNCIO.

Prime contractor: Univ. Açores, J. V. CRUZ

Partner: Univ. Lisboa, M.O.SILVA

Total budget 74.771,72

Approved Projects

ITN budget in €

ITN-IPA Protocol 60.000

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeometry: Absolute Dating – Radiocarbon and Luminescence

1 - “*Estudo do Megalitismo no Alentejo central*” e “*Estudo da Necrópole megalítica do Monte da Têra-Pavia*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Leonor Maria Pereira Rocha.

2 - “*TEMPOAR II- Territórios e mobilidade no Alto Ribatejo*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Alexandra Leite Velho.

3 - “*ESTRELA – A ocupação alto-medieval da encosta noroeste da Serra da Estrela*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Catarina Tente.

4 - “*O Catro da Cárcoda na Protohistória do centro de Portugal*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Ivone dos Santos Silva Pedro

5 - “*Indígenas e Fenícios no Almaraz*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Luis Ventura de Barros

6 – “*Castro de Palheiros. Projecto de estudo e de divulgação de uma estação arqueológica ocupada no Calcolítico e na Idade do Ferro (CRAPA)*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Alexandra Leite Velho

7 – “*O Dólman das Carniçosas (Figueira da Foz). Escavação, valorização e dinamização. Animação cultural e turística*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Pedro Manuel Sobral de Carvalho

8 – “*Necrópole de São Bartolomeu (Monsaraz)*.”

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: Mário Varela Gomes

9 – “*Paleoalmonda*”.

ITN Co-ordinator: M.I. PRUDÊNCIO

Archaeologist: João Zilhão

Characterisation of Archaeological Ceramics

10 – “*A Ocupação humana do Alto Paiva durante o I milénio AC*”.

ITN Co-ordinator: M.I. DIAS

Archaeologist: Alexandre Tiago dos Santos Valinho

11 – “*Do Neolítico à Idade do Bronze no Penedo do Lexim (Mafra)*”.

ITN Co-ordinator: M.I. DIAS

Archaeologist: Ana Catarina Sousa

12 – “*Ribat da Ponta da Atalaia – Arrifana (Aljezur)*”.

ITN Co-ordinator: M.I. DIAS

Archaeologist: Rosa Varela Gomes

13 – “*Castelo de São Jorge*”.

ITN Co-ordinator: M.I. DIAS

Archaeologist: Ana Gomes

14- “*ARQUEHOLFREN (2002-2005)*”.

ITN Co-ordinator: M.I. DIAS

Archaeologist: Vitor Oliveira Jorge

15 – “*Projecto para o estudo e valorização da Villa Romana da Quinta das Longas (PEVLONG)*”.

ITN Co-ordinator: M.I. DIAS

Archaeologist: António Carvalho

16 - “*TEMPOAR II – Territórios e mobilidade no Alto Ribatejo*”.

ITN Co-ordinator: M.I. DIAS

Archaeologist: Luiz Oosterbeek

Total budget 60.000

Submitted Projects

ITN budget in €

- *CHEMIMAR - Chemical and Mineralogical Markers Applied to Stratigraphic Analysis*

37.410

Total budget 138 416 €

ITN Co-ordinator: M.I. PRUDÊNCIO

Prime contractor: Univ. Aveiro, E. SILVA

Total budget 37.410

Nuclear Instruments and Methods

Current Projects

2003 ITN budget in €

- Study of Carbon Plasmas Obtained in Laser Ablation of Graphite Targets by Numerical Modeling and LIP Spectroscopy, ICCTI/4.1.1. OMFB 2002 - 2003	1.010,00
- Total budget: 5 200 €ITN budget 3 710 €	
- Prime contractor: ITN/CRC Co-ordinator: N.R. PINHÃO	
- Partners: Univ. Chemical Research Center /HAS, Bdapest (L. NEMES)	
- Development of a general purpose software for plasma physics modeling	
- Total budget €2200, ITN budget €1140	450,00
- Prime contractor: ITN/IMP Co-ordinator: N.R. PINHÃO	
- Partners: Inst. Fluid-Flow Machinery, Poland (J.Stanco)	
	Total budget 1.460,00

Submitted Projects

ITN budget in €

- Modeling of Plasmas produced by Laser Ablation, ITN / INETI 2002 - 2003	36 248
- ITN Co-ordinator: N.R. PINHÃO	
	Total budget 36 248

Radiation Technologies: Processes and Products

Current Projects

	2003 ITN budget in €
- "Impact of ϵ beam and γ radiation on the wastewater treatment: Comparative studies", IAEA, 302-F2-POR-12017 B5-POOR- 30739, 2002 –2004. Total budget 8000 € ITN budget 5000 €	0
Prime contractor: ITN Co-ordinator: M.L.BOTELHO	
- "Improving quality and safety of minimally processed fruits and vegetables by gamma irradiation", IAEA 302-D6-POR 11682, 2002-2004. Total budget € ITN budget €652	0
Prime contractor: INIA Co-ordinator: M.J. TRIGO	
Partners: ITN, M.L.BOTELHO	
- "Implementation of wastewater treatment by radiation in Portugal", IAEA POR/8/010, 2003-2006. Total budget € ITN budget €	0
Prime contractor: ITN Co-ordinator: M.L. BOTELHO	
- "Control environment in surgical rooms at the army hospitals and its impact on incidence of cross infections", LPM/MDN PIDDAC, 2003-2007. Total budget € ITN budget 0 000€	8.640
Prime contractor: H. Militar Co-ordinator: DR. PET MAZARELLO	
Partners: ITN, M. LUISA BOTELHO	
- "Upgrading of radiation technology unit (UTR)", ITN/CHIP, 2003-2005. Total budget € ITN budget €100 000	0
Prime contractor: ITN Co-ordinator: M.L. BOTELHO	
Partners: CHIP, Portugal	
Sandra Cabo Verde e Helena Casimiro	4115.08
Total budget	574 952

Approved Projects

	ITN budget in €
- <i>Estratégias Biotecnológicas para o Tratamento de Doenças Infecciosas: Direcionamento Intracelular de antibióticos e Oligonucleotídeos via Lipossomas</i> AdI Consortium, 2004-2006 Total budget € ITN budget 35000€ Prime contractor: BLUEPHARMA, ITN Co-ordinator: M.L. Botelho	35000
Total budget	35000

RESEARCH PROJECTS

Submitted Projects

ITN budget in €

- *The Interaction of Ionising Radiation with Textile Materials –
Functional and Microstructural Studies* – 36 012
Prime contractor: University of Minho

Project duration in months: 24

Total budget 36 0120