## Actions to be performed

<table>
<thead>
<tr>
<th>ACTION</th>
<th>DEADLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Launch of a public website</td>
<td>November 2011</td>
</tr>
<tr>
<td>Final Collaboration Committee meeting</td>
<td>2-3 December 2011</td>
</tr>
<tr>
<td>2nd Periodic Report:</td>
<td>29 February 2012</td>
</tr>
<tr>
<td><em>Deadlines for Spokespersons and Administrations:</em></td>
<td></td>
</tr>
<tr>
<td>- Scientific Reports</td>
<td>15 December 2011</td>
</tr>
<tr>
<td>- Financial Reports</td>
<td>27 January 2011</td>
</tr>
<tr>
<td>Final Report:</td>
<td>29 February 2012</td>
</tr>
<tr>
<td><em>Deadlines for Spokespersons:</em></td>
<td></td>
</tr>
<tr>
<td>- Use and dissemination of foregrounds</td>
<td>15 December 2011</td>
</tr>
<tr>
<td>- Report on societal implication</td>
<td>15 December 2011</td>
</tr>
</tbody>
</table>
The HP2 heritage to HP3: a public website

Concept pre-home page

HadronPhysics2

HP2 documentation pages  HP2 public pages
The HP2 Heritage to HP3: a Public Website
The six active blocks of the public website

The new public web pages have the goal to disseminate all information related to the HadronPhysics2 project in a complete, attractive and understandable way. The home page of this new section is primarily targeted to the general public, in particular young people.

The new public home page is structured into six active blocks.

The first block describes hadron physics in general and the HadronPhysics2 project in particular, in a language that is understandable to the public.
The six active blocks of the public website

The second block is dedicated to the HadronPhysics2 activities. Each activity is explained in a question-answer approach, guiding the reader to understand what the main aspects of each activity are. The text is enriched with media content and “more scientific information”, such as additional, higher level scientific details.
We are in Trentino, in the north of Italy. What you see is the ECT*, the European Centre for Theoretical Studies in Nuclear Physics and Related Areas of the Bruno Kessler Foundation in Trento. The ECT* is located in the beautiful 350 years old Villa Tambosi.

We are here with Professor Achim Richter who is presently heading this international centre. ECT* plays the role of a so-called Transnational Access Centre within the HadronPhysics project of the Seventh Framework Programme of the European Commission.
Q1 “Prof. Richter would you please perhaps briefly introduce yourself to the audience?”

Q2 “You are heading ECT* - can you tell us what is the role of this institution in the European nuclear physics community?”

Q3 “What role does the ECT* play as a Transnational Access Centre for European research?”

Q4 “Besides running workshops, collaboration meetings and doctoral training programme is there any other activity?”

Q5 “What do they work on?”

Q6 “In which way would you see ECT* as a Transnational Access activity contributing to the benefit of the society?”

Q7 “As a final question, why should, in your opinion, young persons choose to study science and why should they do it in Europe?”
The third block provides information on how much the project costs and for what the money is spent. Special attention is given to HadronPhysics2 contracts to young researchers.
The six active blocks of the public website

The **fourth block** is dedicated to **news, events, press releases and job postings** related to the project. This section is structured as a **blog**.

The **fifth block** offers direct access to **contact** the project coordinator and his staff.

The **sixth block** provides the **links** to participating institutions' websites, along with all other relevant web sites.
Study of Strongly Interacting Matter

HadronPhysics

The HadronPhysics3 project
NuPECC Meeting – Budapest, 7-8 October 2011
The HadronPhysics3 project

- Coordinator: INFN, Italy
- Project Coordinator: Carlo Guaraldo (INFN – LNF)
- Consortium: 48 European Organizations
- Other involved Institutions: 119
- Involved researchers: more than 2500
- Involved Countries: 35
- EC requested contribution: 9 M€
- Contract duration: 36 months
SCIENTIFIC ACTIVITIES
Blocks of activities

- Transnational Access Activities (5)
- Networking Activities (9) and Management
- Joint Research Activities (14)
NETWORKING ACTIVITIES

WP1: MAN
WP2: TURHIC
WP3: ENCStudy
WP4: EPOS
WP5: MesonNet
WP6: SPHERE
WP7: FAIRnet
WP8: SaporeGravis
WP9: LEANNIS
WP10: LatticeQCD
### NETWORKING ACTIVITIES

**WP2: TURHIC**
Theory of Ultra Relativistic Heavy Ion Collisions

**WP4: EPOS**
Exciting Physics Of Strong Interactions

**WP10: LatticeQCD**
Lattice Quantum Chromodynamics

Carlo Guaraldo
WP5: MesonNet
Meson Physics in Low Energy QCD

WP7: FAIRnet
A worldwide research networking activity for experiments on QCD at FAIR

WP8: SaporeGravis
Network for the heavy flavoured probes of deconfined QCD matter formed in heavy ion collisions at relativistic energies
NETWORKING ACTIVITIES

WP6: SPHERE
Strange particles in hadronic environment research in Europe

WP9: LEANNIS
Low energy antikaon-nucleon and -nuclei interaction studies
WP3: ENCstudy

Feasibility study for an electron-nucleon collider in Europe
TRANSNATIONAL ACCESS

WP11: ECT*
WP12: MAMI
WP13: GSI
WP14: COSY
WP15: LNF
TRANSNATIONAL ACCESS

HADRONIC BEAMS

WP13: GSI
WP14: FZJ-COSY
WP15: INFN-LNF
TRANSNATIONAL ACCESS

ELECTROMAGNETIC BEAMS

WP12: UMainz-MAMI
TRANSNATIONAL ACCESS

THEORETICAL STUDIES

WP11: FBK-ECT*
JOINT RESEARCH ACTIVITIES

WP16: ADAMAS
WP17: DNPMag
WP18: FPD
WP19: FuturePID
WP20: FutureJet
WP21: CherenkovImaging
WP22: LYSOFiber
WP23: GPDex
WP24: JointGEM
WP25: PolAntiP
WP26: ULISINT
WP27: Di-JETCAL
WP28: SiliconMultiplier
WP29: 3D-Mom
<table>
<thead>
<tr>
<th>WP16: ADAMAS</th>
<th>Advanced Diamond Assemblies</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP18: FPD</td>
<td>Frontier Photon Detector</td>
</tr>
<tr>
<td>WP19: FuturePID</td>
<td>Future Particle Identification Techniques</td>
</tr>
<tr>
<td>WP21: CherenkovImaging</td>
<td>Development of high rate, compact Cherenkov imaging technology</td>
</tr>
<tr>
<td>WP22: LYSOFiber</td>
<td>Frontier scintillation detectors based on inorganic fibers</td>
</tr>
<tr>
<td>WP24: JointGEM</td>
<td>Ultra-light and ultra-large tracking systems based on GEM technology</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td>WP26: ULISINT</td>
<td>Integration of ultra-light silicon tracking and vertex detection systems for frontier precision experiments</td>
</tr>
<tr>
<td>WP28: SiliconMultipliers</td>
<td>Matrix Geiger-Mode Avalanche Micro-Pixel Photo Diodes for Frontier Detector Systems</td>
</tr>
</tbody>
</table>
WP17: DNPMag
Internal Magnets for DNP

WP20: FutureJet
Cryogenic jets of nano- and micrometer-sized particles for hadron physics
| WP23: GPDex | Generalized Parton Distributions |
| WP27: Di-JETCAL | A Di-Jet Electromagnetic Calorimeter for Jet Quenching Study |
| WP29: 3D-Mom | Three-dimensional momentum structure of hadrons |
WP25: PolAntiP  Polarized Antiprotons
MANAGEMENT STRUCTURE
The governance of the project is realized through the following management structure:
HadronPhysics3 Consortium

• 48 beneficiaries from 17 countries:
  – 16 Member States of the European Union
  – 1 Associated Country (Croatia)

• 119 Other Involved Institutions. Among which:
  – a number of International Cooperation Partner Countries (ICPCs) such as Belarus, Russia, Ukraine, China, India and South Africa
  – institutions from Japan, Korea and the United States

• Overall, 35 countries participate in the project.
COMMITTED RESOURCES
A. Financial Resources

B. Human Resources
A. FINANCIAL RESOURCES

1) Total EC requested contribution
2) Distribution of the EC requested contribution per beneficiary
3) Distribution of the EC requested contribution per country
1) Total EC requested contribution

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>EC requested contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management of the consortium</td>
<td>900.000</td>
</tr>
<tr>
<td>Networking Activities</td>
<td>2.111.000</td>
</tr>
<tr>
<td>Transnational Access Activities</td>
<td>1.879.000</td>
</tr>
<tr>
<td>Joint Research Activities</td>
<td>4.110.000</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td><strong>9.000.000</strong></td>
</tr>
</tbody>
</table>
2) Distribution per beneficiary

- INFN: 31%
- GSI: 10%
- OeAW: 3%
- U Glasgow: 3%
- UBO: 4%
- FBK: 4%
- CNRS: 5%
- FZJ: 6%
- UMainz: 7%
3) *Distribution per country*

- **United Kingdom**: 3%
- **Spain**: 2%
- **Austria**: 3%
- **Sweden**: 4%
- **France**: 7%
- **Italy**: 35%
- **Germany**: 41%
The grand total of human effort engaged in the HadronPhysics3 project amounts to about 26,000 person months, thus over the three-year duration of the project, more than 700 FTE contribute. This figure corresponds to about 2,500 scientists involved in the project.

An aspect worthy of consideration are the 119 organizations outside the consortium, therefore not receiving EC funds, uniquely motivated by a scientific interest which contribute about 8,000 person months.
This large participation reflects the attractiveness of the blooming, still expanding, research activity in the field.
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial information of the outcome of the evaluation of the proposal</td>
<td>10 March 2011</td>
</tr>
<tr>
<td>Negotiation mandate</td>
<td>13 April 2011</td>
</tr>
<tr>
<td>Start of negotiation</td>
<td>03 May 2011</td>
</tr>
<tr>
<td>Submission of first version of Annex I and GPFs</td>
<td>30 May 2011</td>
</tr>
<tr>
<td>Closing of the negotiation</td>
<td>14 July 2011</td>
</tr>
</tbody>
</table>
Dear Carlo and dear Diana and Yara
Thank you for submitting the second draft for HadronPhysics3 and for the good work you did in order to fulfil the requests we made for the Project.
The second draft responds to our exigencies and we will proceed with our internal procedures in order to finalise the negotiation
Kind regards
Teodora and Christian
<table>
<thead>
<tr>
<th>Updates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinator’s signature of the GA</td>
<td>14 September 2011</td>
</tr>
<tr>
<td>EC’s expected signature of the GA</td>
<td>October 2011</td>
</tr>
<tr>
<td>HadronPhysics3 start date</td>
<td>01 January 2012</td>
</tr>
</tbody>
</table>
EUROPEAN COMMISSION

DIRECTORATE-GENERAL FOR RESEARCH & INNOVATION

SP4-Capacities

Combination of CP & CSA

Integrating Activities / e-Infrastructures / Preparatory phase

FP7-INFRASTRUCTURES-2011-1

Grant Agreement Number 283286

HadronPhysics3

Study of Strongly Interacting Matter

INFRA-2011-1.1.20.
Article 11 - Entry into force of the grant agreement

This grant agreement shall enter into force after its signature by the coordinator and the Commission, on the day of the last signature.

Done in two originals in English.

For the coordinator done at FRASCATI

ISTITUTO NAZIONALE DI FISICA NUCLEARE

Name of the legal entity

Prof. Roberto Petronzio

Name of the legal representative

Stamp of the organisation (if applicable)

Signature of legal representative

14 SET. 2011

Date

For the Commission done at Brussels

Name of the legal representative

Signature of legal representative

Date