# Video Quality Driven Multimedia Streaming in Mobile Wireless Networks

**From** 2012-02-01 to 2016-01-31, ongoing project

## Project details

<table>
<thead>
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<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 401 100</td>
<td>FP7-PEOPLE-2011-IRSES - Marie Curie Action &quot;International Research Staff Exchange Scheme&quot;</td>
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<td><strong>EU contribution:</strong></td>
<td><strong>Call for proposal:</strong></td>
</tr>
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<td>EUR 357 000</td>
<td>FP7-PEOPLE-2011-IRSES</td>
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<tr>
<td><strong>Coordinated in:</strong></td>
<td><strong>Funding scheme:</strong></td>
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<tr>
<td>Serbia</td>
<td>MC-IRSES - International research staff exchange scheme (IRSES)</td>
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## Objective

"Robust and efficient multimedia transmission over wireless networks to mobile users is a challenging task due to large bandwidth consumption, quality of service (QoS) requirements, real-time and power constraints, heterogeneous receiver capabilities and error-prone wireless transmission environment. The necessity for seamless access and exchange of large amount of multimedia content anytime and anywhere by mobile users is driving intensive research within this field as it provides a number of business opportunities through commercial multimedia applications provisioning such as digital TV, video-on-demand, video conferencing, 3D TV, interactive gaming, social networking, etc. To address the ever-increasing consumers’ requirements and ensure QoS, the emerging solutions for multimedia streaming over next generation wireless networks need to be adaptive to the specific conditions of the network and the receiver devices and take into account each individual user experience. Current state-of-the-art approaches in multimedia processing and communications are not driven by the quality of the users’ experience and the project proposed is aimed at addressing this problem. The goal is to design a system that would be able to dynamically adjust the multimedia signal processing and communication parameters based on the appropriate video quality feedback provided by the receiver devices themselves, thus assuring optimal delivery for each specific configuration of the mobile wireless network.

The main objective of this Project is to establish new partnerships and to reinforce already existing paths of cooperation between participating European and non-European research institutions through a coordinated multiannual joint research programme in the field of quality-driven multimedia processing and communications for multimedia streaming over emerging wireless networks."

## Related information

- **Result In Brief**: Revolutionising multimedia streaming
- **Report Summaries**: Periodic Report Summary 1 - QOSTREAM (Video Quality Driven Multimedia Streaming in Mobile Wireless Networks)
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Subjects
Scientific Research

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