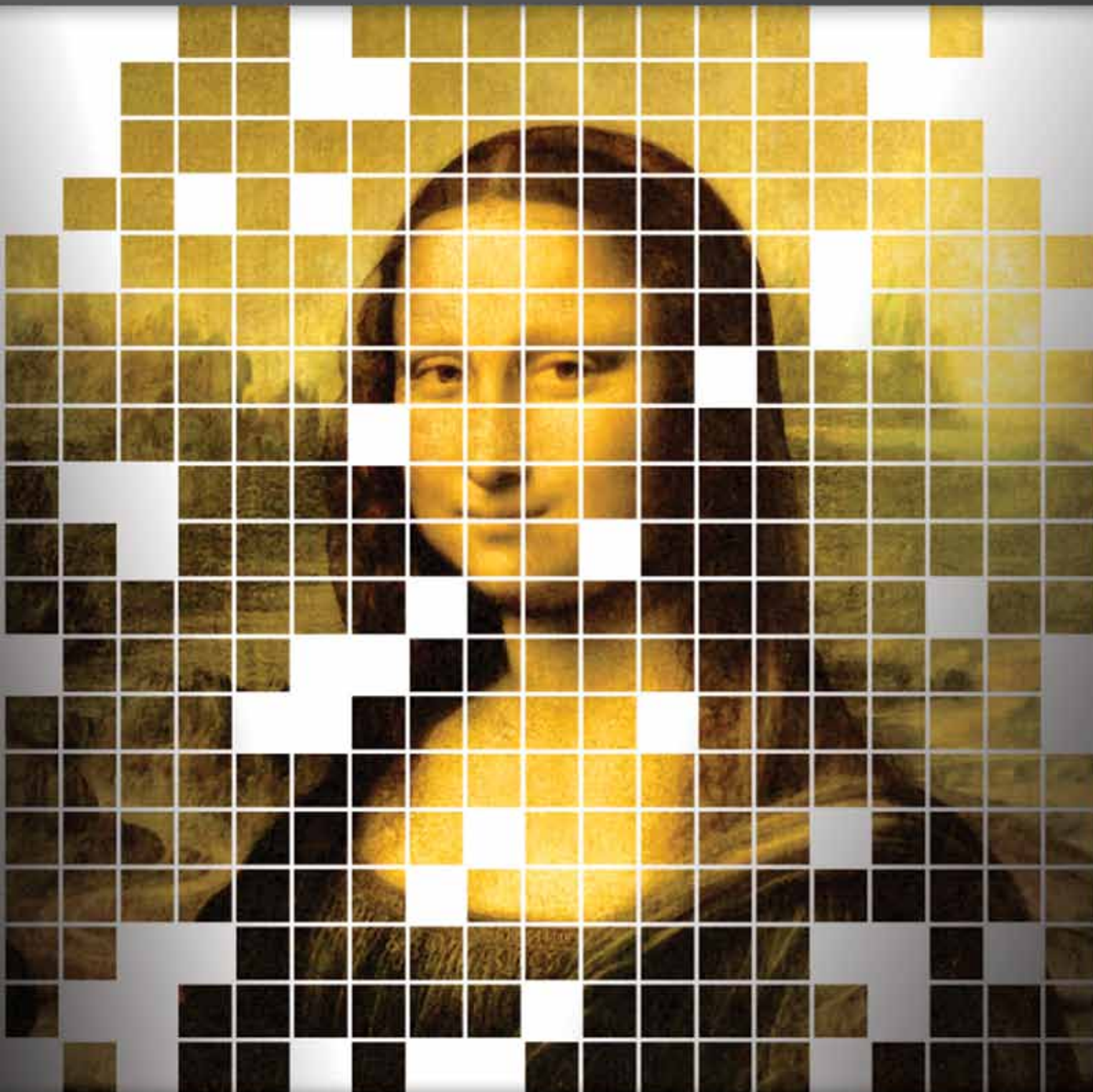




**Mona Lisa is back ...**



**Last time for SA  
This time for AS**

WWW.JAVAD.COM

**For the latest GNSS news and  
technical information visit  
[www.javad.com](http://www.javad.com)**

The screenshot shows the JAVAD website homepage with a navigation bar at the top containing 'PRODUCTS', 'SUPPORT', 'MENU', 'JAVAD', and 'MY'. Below the navigation bar is a banner with the text 'You've come a long way... Survey! View and Order Triumph-V5'. The main content area is divided into several sections:

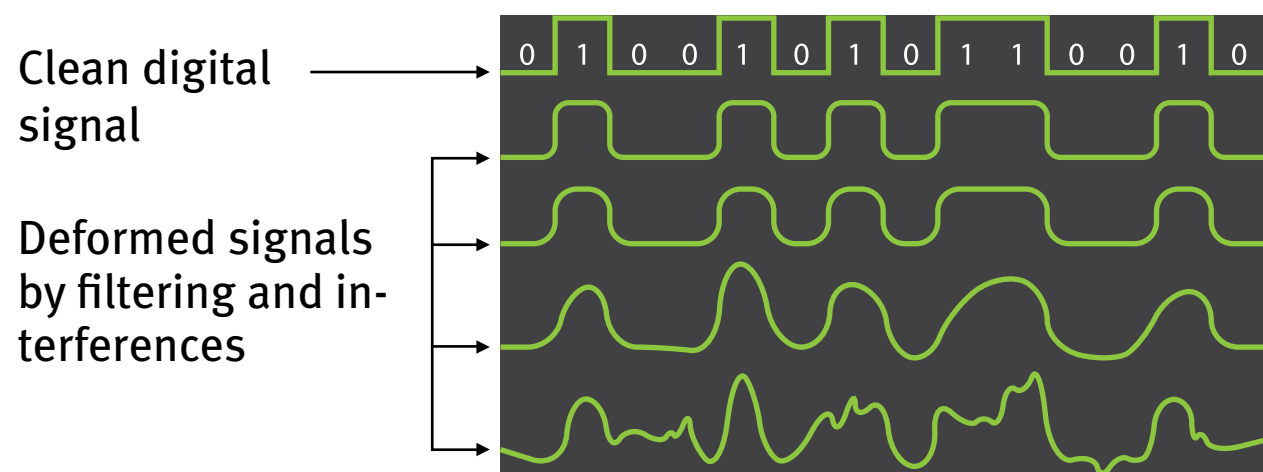
- Menu:** A button labeled 'MENU' with the text 'Put cursor on the Menu button on the top of the screen to see web directory.'
- Experience TRIUMPH-V5:** A section for the TRIUMPH-V5 receiver, priced at \$2,990, described as 'the most advanced GNSS receiver. Experience it.' with a 'View Details' link.
- Learn and Win:** A competition announcement: 'To participate in this competition, correctly answer the eight questions below by July 22, 2011.' with a 'View Details' link.
- GPS & GLONASS History:** A section titled 'How GPS and GLONASS got together - and other recent events.' with a 'View Details' link.
- First from Javad and from Russia: GLONASS-K L3 CDMA:** A news headline.
- A solution for LightSquared:** A video link: 'In this video we suggest a solution trend towards resolving the LightSquared/GPS conflict.' with a 'View Details' link.
- Javad Appeals to Obama:** A link to a 'GPS World' report on 'LightSquared/GPS controversy and Javad's appeal to President Obama.' with a 'View Details' link.
- End P-codes encryption:** A link to a petition: 'Sign petition to President Obama to end P-codes encryption.' with a 'View Details' link.
- Visit us at Intergeo:** A link to an event: 'Tuesday, September 27 to Thursday, September 29; Nuremberg, Germany.' with a 'View Details' link.
- TRIUMPH-V5 tracks Galileo E5 altBOC signal:** A news headline.
- TRIUMPH-V5 Software 1.5:** A link: 'Version 1.5 of TRIUMPH-V5 software is released.' with a 'View Details' link.
- Newsletter:** A link: 'Subscribe to receive our electronic Newsletter.' with a 'View Details' link.
- Javad Video Lessons:** A link: 'He will personally guide you how to use TRIUMPH-V5. Click the image.' with a 'View Details' link.
- GyrAnt/IMU Integrated:** A link: 'The results of GyrAnt + GPS receiver integration system test.' with a 'View Details' link.
- Signal updates on Galileo GIOVE-B and Compass satellites:** A news headline.
- Lift & Tilt Survey:** A link: 'Don't Look! Don't Touch! TRIUMPH-V5 reads your mind!' with a 'View Details' link.
- Interferences:** A link: 'See in-band interferences that affects your job performance.' with a 'View Details' link.
- TRIUMPH-V5 How-To's:** A link: 'Questions regarding TRIUMPH-V5.' with a 'View Details' link.
- Justin Link:** A link: 'Transfer points and attributes from TRIUMPH-V5 to Justin.' with a 'View Details' link.
- JAVAD GNSS receivers can track Chinese Compass (Beidou-2):** A news headline.
- Winning USGS bid:** A link: 'U.S. Geological Survey Awarded JAVAD GNSS up to \$3.9M Contract.' with a 'View Details' link.
- Multipath Comparison:** A link: 'See test results of German Aerospace on several receivers.' with a 'View Details' link.
- NetView:** A link: 'Transfers data from JAVAD GNSS receivers to computer and controls receivers.' with a 'View Details' link.
- NetHub:** A link: 'Download and upload to ftp Receiver Files.' with a 'View Details' link.

At the bottom of the page, there is a footer with the text: 'All JAVAD GNSS receivers track QZSS Satellite and its New L1C signal' and a link: 'JNS customers click here for support'.

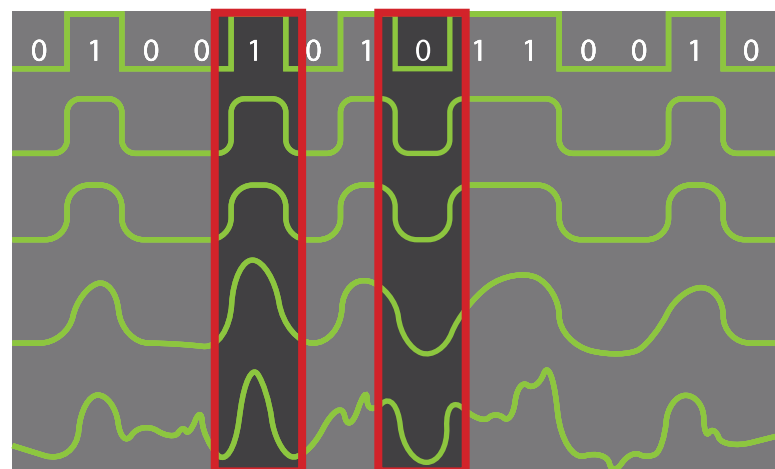


## GNSS is affected more by interferences

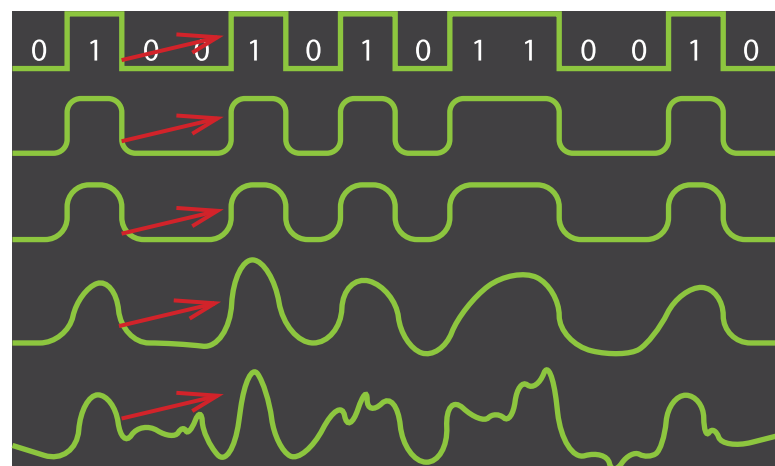
High precision GNSS receivers are more sensitive to interferences because GPS digital signals are used for “ranging”.



Communication devices recover “1”s and “0”s of a digital signal in all signal examples shown in this graph.



GNSS receivers need to measure distances by marking the arrival times of signals. Hence signals need to have clean and sharp edges to clearly mark the arrival times.



## Policy to encrypt P-codes is outdated

Encrypting P-codes has made GPS 1,000 times more vulnerable to interferences, especially for high precision applications. Encrypting should be done only where and when needed.

Policy to Encrypt P-codes is over 30 years old.



Then it was against Soviet Union. We had missiles targeted at each other. Now Soviet union is gone and Russia is our friend.



Then Russia did not have GNSS. Now Russia has its own GLONASS with un-encrypted P-codes.



Then there was “Iron Curtain”. Now Presidents Obama and Medvedev signed 3-year visa exchange programs.



Then the concept of using GPS for high precision application did not exist. Now GPS is used in high precision applications with huge economical benefits.



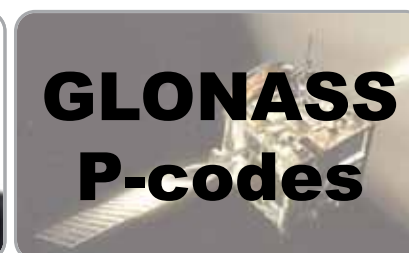
Then there was no concept of broadband usage (like LightSquared). P-codes encryption makes GPS much more vulnerable to LightSquared.



Then P-codes were the only codes for military usages. Now U.S. Military has a new plan for its signals.



Since its inception, GPS in general and P-codes in particular was never used to attack U.S. national security.



GLONASS P-codes never encrypted and Russians national security did not suffer. Reliable RTK is not possible without combining GPS and GLONASS.

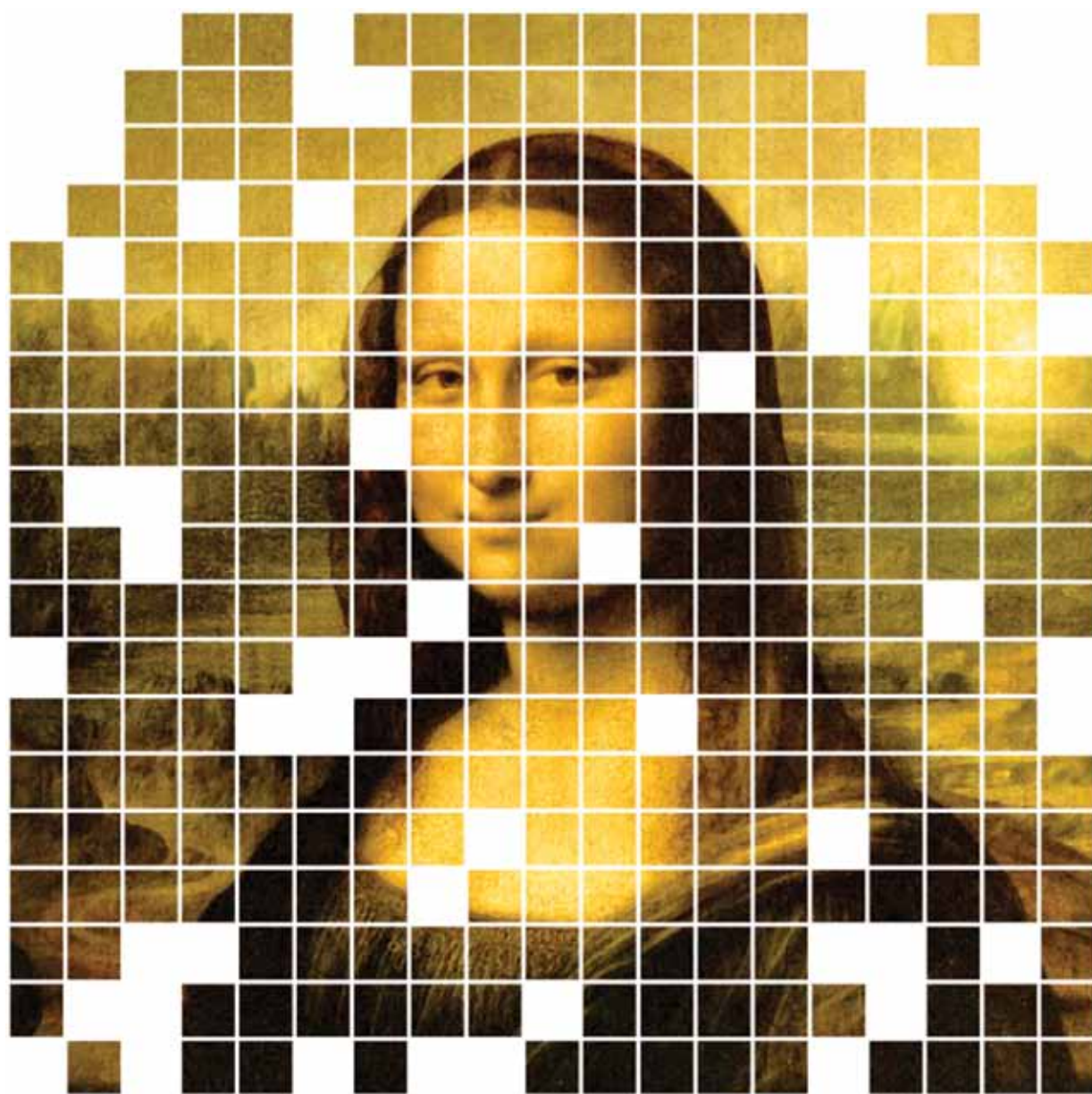


Since the inception no benefit came from encrypting P-codes, but all precision users suffered by a factor of 1,000.



## P-codes encryption, bad science and bad politics

**Our campaign against Selective Availability was successful. Please join the efforts to end P-codes encryption now.**



Encrypting GPS P-codes is a step backward in providing the best of this excellent work of science and art. As the leader in GPS technology, we consider P-codes encryption as being neither good science nor good politics.

## Petitions to President Obama



**President Obama,  
tear down this wall.**

**Please see video and sign the petition at [javad.com](http://javad.com) to end P-codes encryptions. Also contact your local representatives.**



[www.javad.com](http://www.javad.com)  
Video Lessons

Another Offer\*

Try TRIUMPH-VS and Compare!



The screenshot shows the JAVAD website's 'Javad Video Lessons' page. The page features a navigation bar with 'PRODUCTS', 'SUPPORT', 'MENU', 'JAVAD', and 'BY'. Below the navigation bar, the 'Javad Video Lessons' section is highlighted. A sub-section for 'Triumph-VS' lists 21 video lessons, each with a thumbnail and a title. The lessons cover topics such as 'Introduction to Triumph-VS', 'RTK with base station and UHF', 'Maps & Points', 'In the Field With RTK', 'Draw (Manage Points)', 'VRS (LAH, Wi-Fi, GPRS, NTRIP)', 'Six Pack RTK V6 Engine', 'Selecting local coordinate system', 'Creating local coordinate system', 'CoGo', 'Introduction to GNSS Spectrum', 'TRIUMPH-VS GNSS Spectrum Analyzer', 'Stakeout and Stake-Survey', 'Structure Monitoring', 'Base station', 'Support, update software, OAF', 'Inside Batteries', 'JustinLink to Triumph-VS', and 'Active Map & New Features'. Below the 'Triumph-VS' section, there is an 'Other Software' section with three lessons: 'JustinLink', 'NetHub', and 'NetView'.

First visit [www.javad.com](http://www.javad.com) and view our 21 GNSS Video Lessons (total of about 4.4 hours). It will be a good learning experience, even if you do not proceed with the following offer:

- To experience the **TRIUMPH-VS**, pay **\$2,990** and receive one complete system with all accessories for RTN/VRS RTK, or RTK using your own base station (like a TRIUMPH-1 or another TRIUMPH-VS).
- Experience it for one month. To purchase it, send us three additional monthly payments of \$2,990. Or send it back for a full refund.

Visit our dealer near you or [www.javad.com](http://www.javad.com)

\* Limited time offer and subject to credit approval. This offer is separate from our Technical Competition event.