1 1000

Trepponti Bridge, Comacchio, 1634

Trepponti Bridge, Comacchio, 1634

54-365



of the city.

The structure which connects the The Trepponti bridge, also known as Ponte del Teatro, is a work of engineering along the old navigable Pallotta Canal that led to the Adriatic Sea. The bridge constituted the fortified gate

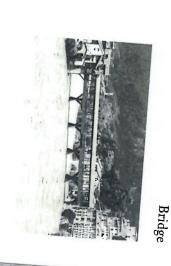
created to regenerate local civil and economic vitality. These included the many canals and bridges, including the "pentarch" bridge, namely the Ponte dei Trepponti. connecting the city to the seas, and many projects designed the new waterway—canale Pilotta works of his own preparation, the architect port facilities. Based on an orderly plan of public Luca Danese. Due to the direct involvement of Pope Urban VIII, Luca Danese worked at length in the context of the improvement of Adriatic on the renewal of the lagoon-front town of Comacchio, considered to be of strategic importance based on a design by an architect from Ravenna, the Cardinal Giovanni Battista Maria Pallotta, gate, an outdoor theater, or a raised square. interpreted as a simple bridge, but also an access routes is an original urban device that can be two banks of the canal through a detailed system of The complex was built in 1638 by order of

Salara, Sant'Agostino, Borgo, and San Pietro. Across the centuries the bridge has been altered in various ways, above all for aesthetic reasons, as in the addition of the two guard turrets at the top of the two rear staircases, and of six small pillars placed at the top of the three frontal staircases. f Both fortified towers bear plaques that display two significant quotations for the city of Comacchio.

ramps of 5.5 meters. The two staircases at the sides of the Pallotta Canal are specular, composed of 24 consecutive steps and 4 steps placed inside other—that converge on a terrace over the water in Istrian stone. The largest staircase with a the turrets. trapezoidal plan has 28 steps divided into two ramps, and reaches the level shared by the other brick staircases—three on one side and two on the The bridge is composed of five ample

Ponte Vecchio, Bassano del Grappa, 1567-1569

Ponte Vecchio, Bassano del Grappa, 1567–1569 342–353



The bridge on the Brenta River, known as covered bridge with five spans, whose original design dates back to Andrea Palladio.

The proportions of the structure and the this bridge an urban device that goes beyond its linear square, a terrace on the river or a covered passageway.

The first wooden bridge of Bassano to its history of repairs or reconstruction of the intrinsic fragility of the material and the powerful Brenta in 1567 caused yet another collapse, leading for the design of a new structure.

dated back to 1209; various documents bear witness original structure over the centuries, due to the intrinsic fragility of the material and the powerful Brenta in 1567 caused yet another collapse, leading for the design of a new structure. The first proposal on a Roman model, but it was rejected by the bridge that would not differ too much from the priginal structure.

The wooden construction designed by collapse in 1748; after reconstruction based on

the original project by Bartolomeo Ferracina, it collapsed a second time—again due to flooding—in reconstruction after destructure, resulting from a third an explosion, still complies with the original design and 8 meters in width, has five spans of about oblique crosspieces resting on four intermediate nylons and two lateral abuttnents. The four ways are provided to the original design and two lateral abuttnents. The four modulate nylons and two lateral abuttnents.

0

Urban Terrace



the result of exceptional engineering.

Piazza Grande is an urban device that is largest elevated squares in Italy. Besides being one of the most modern and ambitious projects of urban transformation of the Middle Ages, it is also Built starting in 1321 and completed in the mid-1300s, Piazza Grande in Gubbio is one of the \Diamond

 \Diamond

which to view the surrounding landscape, a square faced by the most important buildings in the city, and the roof of a system of spaces and substructures. hard to classify it is simultaneously a terrace from

cally mark the point of union of the entire city. Giuliano, of the city's four districtsto make the new center at the point of convergence and thriving productive community. It was decided settlement and closer to the increasingly lively a new town center, in a position lower than the old the municipal government decided to create trative growth of Gubbio during the 13th century, The project was extremely ambitious San Martino, and San Pietro-to symboli-In the wake of the economic and adminis--Sant'Andrea, San

also marked the interruption of the work: the Palazzo Pretorio (Podestà) remained unfinished, while the four great arches acting as the substructures the advent of the lordship of the Gabrielli (1350), mid-1300s. The end of communal independence, with

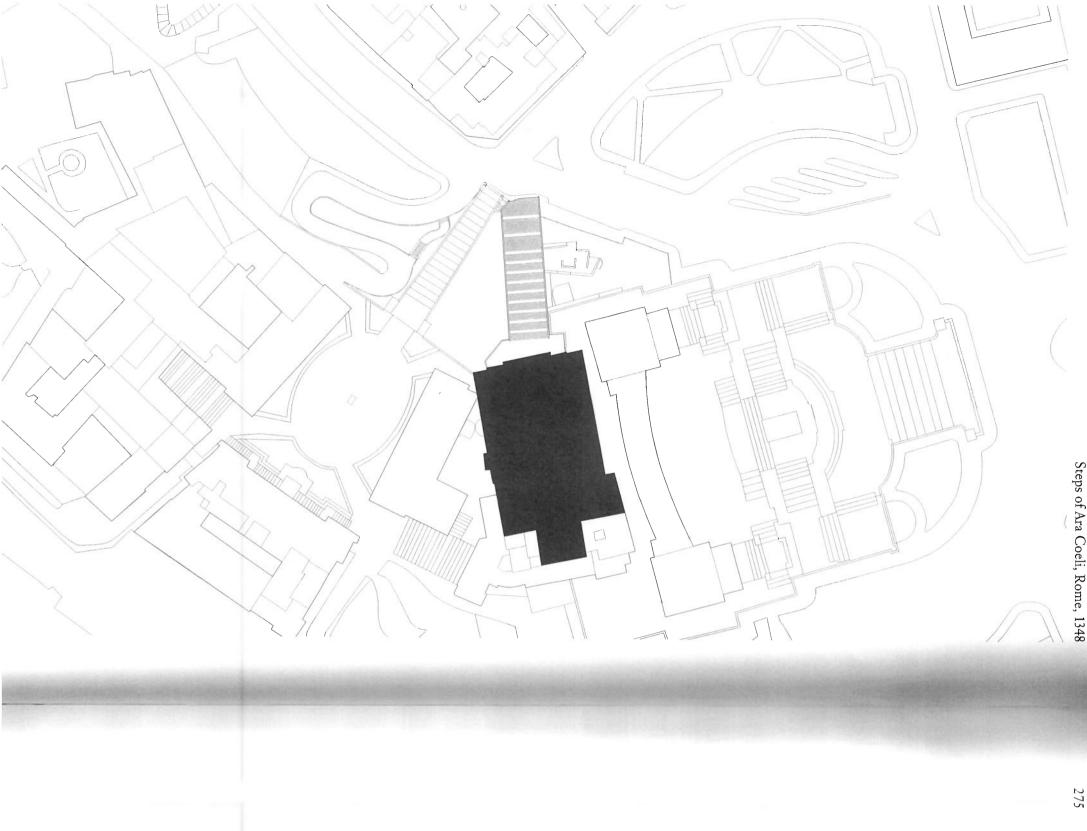
tion began under the supervision of the architect Angelo da Orvieto in 1332, and continued until the

of the municipal administration: the Palazzo dei Consoli and the Palazzo del Podestà. The construcpiazza around which to place the main buildings for its time, calling from the outset for a large raised

In the 16th century a loggia was built on the southwestern side of the square a feature of the piazza were not completed until 1482.

To construct the project it was necessary to alter the natural state of the land in the higher zone, starting with the formation of an embankment, while towards the valley the raised square is supported by a system of buttresses, with 12 lower and 12 upper compartments. The wall towards the valley that supports the piazza is about 17 meters in height from the street below, and contains large barrel-vaulted spaces with a structural role.





One of the most important urban projects of 14th century Rome, the Ara Coeli steps connect the slopes of the Campidoglio with the basilica of Santa Maria in Ara Coeli.

capable of changing the physiognomy of the northern margin of the Capitoline Hill. the flight of Ara Coeli steps soon became a place of vivid symbolic value, a distinctive urban landmark Given its size and monumental presence,

towards Christian Rome. They also completely to legend, by the Tribune of Rome Cola di Rienzo. the site was inaugurated that same year, according a pre-Christian sign of the birth of the church. altered the orientation of the church at the top, no longer facing towards the Forum but instead At the time of construction, the Franciscans, to whom Popo Innocent X had assigned ownership, Augustus of a virgin on an altar, later interpreted on their knees in the hope of miraculous events. The name Ara Coeli—the "altar of heaven"—ster as a true scala sancta, ascended by the faithful changed its image through refurbishing in from the legend of the apparition to the emperor Andreozzi, the steps were perceived at the time period in Roman history, as a votive offering to the Virgin to mark the end of the plague of 1348; Roman-Gothic style. Built by Lorenzo di Simone The flight of steps was built in a dark -stems

designed by Michelangelo, led to the cutting of the southwestern corner of the staircase. In 1546 the construction of the ramp of access to the summit of the Capitoline Hill, The flight spans a level shift of 21 meters

grouped in 12 ramps with a variable number of steps: the first three ramps have 20, 15, and 14 steps, respectively, while the others have 7 steps each. The dimensions are impressive: 53 meters in length and 14 meters in width. with 124 marble steps, salvaged from the remains of the Temple of Sarapis on the Quirinal Hill,

access to the church and to the terrace of the Victor Emmanuel II Monument. This space, at the conclusion of the long staircase, also becomes a factor of geometric connection between the longitudinal axis of the Basilica and that of the steps, rotated by 7 degrees.

Galleria Vittorio Emanuele II, Milan, 1865-1877

Gallery

Galleria VIttorio Emanuele II, Milan, 1865–1877

246-257

the city: the Duomo (cathedral) and Teatro alla Scala Built from 1865 to 1877, Galleria Vittorio Emanuele II in Milan is one of the largest covered pedestrian streets in Europe; a walkway of almost 200 meters that connects two of the most important places in

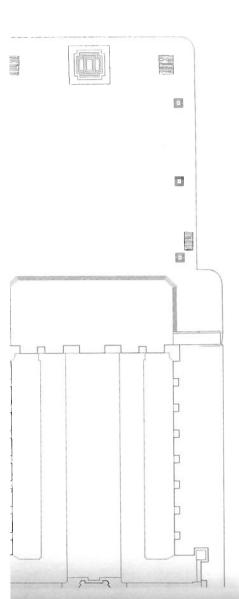
new bourgeois class during its period of origin. galleria typology all over Europe; a place set Vittorio Emanuele stands out for its monumental size, making it a prototype of reference for the aside for shops, strolling and leisure, the passages of London, Paris, and Brussels, Galleria With respect to the archetype of the rites of the

Piazza Duomo, lasted only three years, leading to an initial inauguration in 1867. Full completion of the project, however, came only in 1878. to Giuseppe Mengoni, as the result of a third competition held in 1863; the definitive project was entrance archway and the northern porticos of The work, excluding the building of the central completed in 1864, and construction began in 1865. held in 1860 and 1861, the project was assigned cathedral. After two competitions without winners, unsuitable in its role as the square in front of the today, irregular in form, and deemed by many to be the time, regarding the refurbishing of the piazza in front of the cathedral, which was smaller than it is one of the many debates taking place in Milan at The idea of a route connecting Piazza Duomo and Piazza della Scala arose in the wake of The galleria is perfectly oriented on the

PELLERILES

e decorated in Lombard Neo-Renaissance style.
The modules are separated by Ionic pilasters on high pedestals, with a second order of caryatids and telamons. The forceful vertical rhythm is softened by two protruding trabeations that form the balcony and the upper cornice that conceals the roof supports.

of a with a diameter of 39 meters, inspired by the drawings of the Crystal Palace of New York. The entir galleria, while the crossing is protected by a glass dome reaching a level of 47 meters from the floor, monumental portal that creates a theatrical the city. of each arm are underscored by the presence rely in iron and glass, covers the arms of the nce and marks the presence of the gallery seen A barrel vault with a height of 29 meters,



modular span: 14.5 meters in width and 32 meters

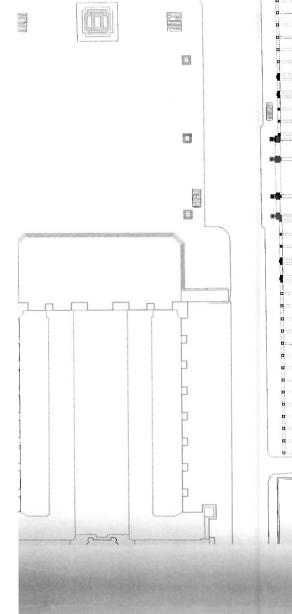
octagonal form. The planimetric structure is obtained by repetition—92 times—of the sam

of the same

intersection there is a large internal piazza with an

axis it has a length of about 196 meters, while the east-west axis measures about 105. At the

cardinal axes and has a cruciform layout with four arms of different lengths: on the north-south



Rotonda Foschini, Ferrara, 1773–1797

Urban Courtyard

206-217

An integral part of the architecture of the Teatro Comunale of Ferrara, Rotonda Foschini is a small oval courtyard connected to the city by two different covered passageways.

thanks to the two vaulted accessways on the main façade of the theater, on Corso Martiri della Libertà and Corso della Giovecca. very visible geometry, this intimate location full of charm belongs to the public space of the city, In spite of its closed and apparently not

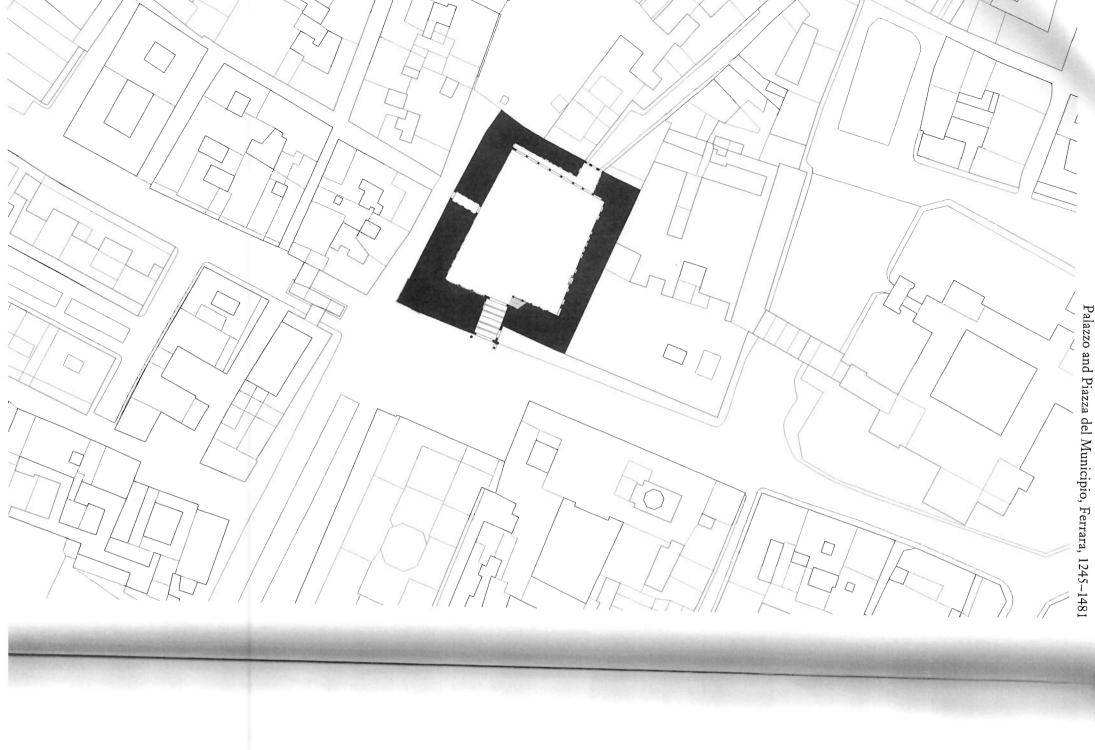
Scipione Borghese commissioned Antonio Foschini and Cosimo Morelli to design the new theater, to be built on an already identified area in front of the Este Castle. The construction, after many interruptions and revisions, was completed in 1793.

The space of the Rotonda was initially end of the 1700s, with the rise of the bourgeoisie, the performing arts. In 1773 the cardinal legate Ferrara already contained various facilities for of adequate size, in spite of the fact that the city of the necessity emerged to create a new theater The history of the Rotonda is inseparably linked to that of the Teatro Comunale: at the

windows to reach the eaves of the roof at a height width, developing vertically with four orders of form, measures 18 meters in length and 12 meters in as a pedestrian passage. The space of the Rotonda, with its oval

of 16 meters.

designed for the transit and parking of carriages, offering direct access to the theater from Corso Martiri della Libertà and Corso della Giovecca. structure but not directly of the Rotonda, Antonio Foschini, one of the two designers of the which was designed by Cosimo Morelli, is utilized Today the Rotonda, dedicated to the engineer



Palazzo and Piazza del Municipio, Ferrara, 1245–1481

194-205



A few meters from the Este Castle, facing the large marble façade of the cathedral, stands the Palazzo Municipale of Ferrara, a ducal residence of the House of Este until the 16th century. A heterogeneous gathering of buildings constructed in successive phases forms a quadrangular urban courtyard of great breadth.

The interesting aspect of this structure does not lie in the specific, individual episodes that give rise to the complex, but in the quality and proportions of the open space, which becomes an element of aggregation between the various buildings and a junction of urban crossing. Through the three passages positioned on three of the four sides of the quad, the courtyard of the palazzo opens to the city, becoming a place of convergence of various flows.

The construction of the palazzo began in 1245 with the erecting of the "L" that faces Via Corso dei Martiri and Via Cortevecchia, recognizable thanks to the high merlons of the Torre della Vittoria. This block, the historic location of the ducal palace, is now a remake done in 1924 in Neo-Gothic style. The courtyard layout visible today took form starting in 1450, with several projects that were part of a systematic program of works ordered by Ercole I d'Este. They include the buildings that enclose the quadrangle to the northwest, the Giardino delle Duchesse and pathway at the piano nobile of the palazzo, supported by five arcades—which joins the northern wing to the Este Castle of Ferrara.

The main entrance to the piazza, known

this access is flanked by an elegant Renaissance arch

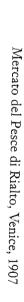
as Volto del cavallo, is a coffered atrium bordered by two large slightly depressed arches, on squat

pilasters made in masonry; towards the cathedral

by an equal number of biforate windows. Finally, on the last side to the northeast, we again find entrances to shops, topped by a double order of windows that create a rhythm interrupted by the portal of the former court chapel, built in 1476. This heterogeneous set of elements is held together by the large paved surface, entirely covered in brick: in a rectangle measuring 34 × 40 meters, indicated by a double row of rectangular granite blocks, squared panels of brick are laid in a herringbone pattern, following different orientations. ¥. the other side, enclosed by filler elements in approximately 1375. The southwestern side features languages in terms of height, form and number of the windows, and the arrangement of the ground level, clues to the formation of the complex over ith a composite capital of simple form, are topped an equal number of biforate windows. Finally, supported by five arches on six columns in composite by the entrance arch, has an impressive flight of time. The southeastern side, divided into two halves ns heterogeneous set of elements is held together teps on one sidewindows that create a rhythm interrupted by the long the northwestern side, eight segmental arches, lythm than the openings on the ground floor. rder—and by three arches on marble columns, on legli Ordini in 1481, with a vaulted roof and cupola ith arches having a very limited rise, topped rge entrances for the shops on the ground floor, which one has been closed, on low columns and three orders of windows with a slightly different following different orientations. panels of brick are laid in a herringdesigned by Pietro Benvenuto

Mercato del Pesce di Rialto, Venice, 1907

(F)



166-177



dei Querini, and the Pescaria, the neo-Gothic buildings connected by an elevated walkway: the building constructed in 1907 The Rialto Fish Market is composed of two 14th-century sheltered market of the Stalon

 \Diamond

 \Diamond

a place for socializing. open spaces in continuity with the surrounding urban fabric; a junction of commercial activities and the architecture of the individual buildings, but also for the urban character of the whole and the ability to form an articulated system of This complex is of interest not only for

on a project by the architect Domenico Rupolo and the painter Cesare Laurenti. ment, the Pescaria, one of the two buildings that form the fish market, was not built until 1907, ba Ponte di Rialto. Inside this long process of developwhich led in 1591 to the opening of the present Fabbriche Nuove, designed by Jacopo Sansovino, are only slightly more recent (1553), like Palazzo dei Dieci Savi. In 1551 a competition was announced redesign the areas of the market in their present campaign of construction was begun, which would form: in 1525 construction began on the Palazzo dei Camerlenghi and the Fabbriche Vecchie, while the houses and storage facilities. In the 1500s a vast the market has expanded, for both retail and wholesale trade, thanks to the construction of warecontinued into the present. Over the centuries had always been a place of trade, a vocation that has San Marco and San Polo. The name comes from the Latin rivus altus, or "deep canal" in reference to today's Canal Grande, of which the islands of Rialto formed the banks. Already prior to 1097, the year of the market's relocation, the Rialto zone settlement in Venice, together with the districts of Rialto is one of the oldest areas of

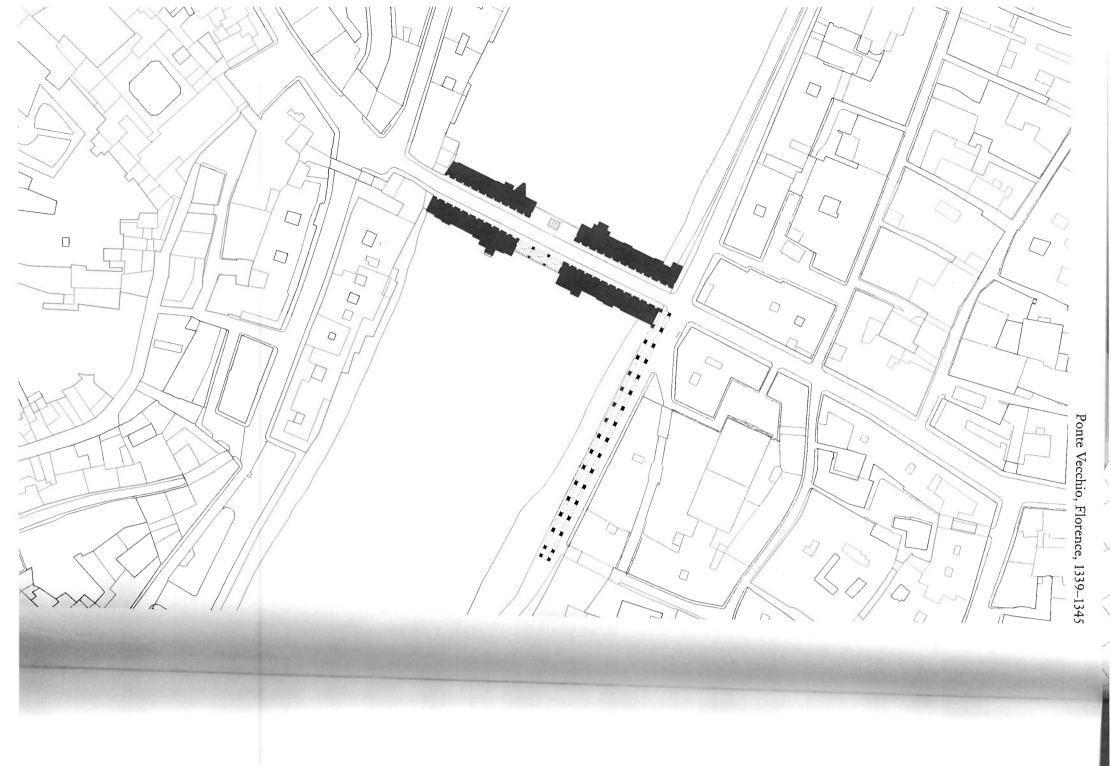
plan of 18×21 meters, has a completely open

The Pescària, organized on a quadrangular

D

structure for which the new building constitutes the elevated walkway to the Stalon, a previously existing of 3.6 meters, and brick pillars at the four corners of the building. The first floor is faced in brick with three-mullion windows and a large loggia facing the Grand Canal. The Pescària is connected by an continuation towards the Grand Canal

large hall with a rectangular form of 12 × 71 med subdivided into two spans by a central row of 12 free columns with a height of about 6 meters, supporting a wooden deck. The building opens outward through a series of pointed arches, 12 on the long side and 8 on the short side. present configuration is the result of major reconstruction carried out at the end of the 19th century. The space on the ground floor is organized as a in th is rej space on the ground floor is organized as a hall with a rectangular form of 12×41 meters, le 1300s, then transformed into a market whose The Stalon, whose architectural language plicated by the Pescaria, was a slaughterhouse



Ponte Vecchio, Florence, 1339-1345

366-377



which was originally the location of a ford. Ponte Vecchio, the oldest bridge in the city, was built from 1339 to 1345 in the point where the banks of the Arno River are closest to each other,

urban fabric, raised over the Arno. interpreted as a fragment of the surrounding sides of a central piazza facing the river make Ponte Vecchio an architectural structure that can be The first crossing of the Arno, in a The presence of craftsmen's shops on both

size of the spans. This new solution—the the number of piers in the riverbed, extending the with segmental arches that permitted a reduction of arches and short spans, Ponte Vecchio was built which were based on Roman models with round position of the city's master builder) reported by Giorgio Vasari) or Neri di Fioravante configuration, built from 1339 to 1345, (due to the fact that in those years he held the to one of two different figures: Taddeo Gaddi (as position not so different from todays, dated back to the Roman era. The bridge in its current Unlike the bridges created until that time,

butchers, where the latter could discard scraps from administration as shops for greengrocers and the 1300s, were set aside in 1442 by the municipal up with small buildings on both sides. constructions, already existing in a different form in small central plaza; over the roof of the buildings four doors placed in the central part and at the there was an upper walkway accessed through buildings placed at the four corners, with a The arcades of the lower level gradually filled ith small buildings on both sides. These The original bridge featured four linear

space for the river to flow, thus limiting its

first of its kind for a bridge in Europe-left more

resistance to the current.

side of the bridge above the shops and along the Lungarno degli Archibusieri in a sequence of 14 arches with a height of 8.5 meters. the "corridor" for Cosimo I, bearing the latter's name, with the aim of connecting the political and administrative center of Palazzo Vecchio with the private residence of the Medici at Palazzo Pitti. nd built in just five months, extends on the eastern he elevated corridor, about 760 meters long

About 96 meters long, with an average width of 24 meters, of which only 8.7 form the width of the pedestrian walkway, the bridge is small apartments. The portions of the bridge with buildings are interrupted at the center, where the arches that supports Vasari's corridor. space widens on both sides to form a piazza erlooking the river; the southern side of e piazza is bordered by a loggia with three round