

FIZZ by BIOSYSTEMES

SOFTWARE SOLUTIONS FOR SENSORY AND CONSUMER TESTS

FULLY INTEGRATED SOFTWARE SOLUTIONS



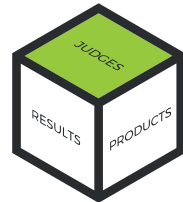
BUILD ANY KIND OF
QUESTIONNAIRE



AUTOMATE YOUR
DATA COLLECTION



ANALYZE THE
COLLECTED DATA



MANAGE ALL
YOUR DATA

AUTOMATED SENSORY AND CONSUMER DATA COLLECTION

The widest choice of software solutions
Efficient and automated data collection in all situations



FIZZ NETWORK
NETWORKED PCs



FIZZ WEB
THROUGH THE
INTERNET



FIZZ PORTABLE
OFFLINE PCs



FIZZ FORMS
ON PAPER

FLEXIBLE TEST DEFINITION AND AUTOMATED DATA COLLECTION

POWER AND FLEXIBILITY FOR ANY KIND OF TEST

Select and combine all types of questions in your tests, from discrimination testing to multi-attribute time-intensity through to multiple choice questions. Use and customize any kind of scale, include multimedia (pictures, videos, sound recordings) ... Layout your questionnaires freely in your panellists' language.

UNMATCHED VERSATILITY



Use **FIZZ** for any kind of testing or data collection: standard sensory tests, training with feedback, quality control, consumer research, judge information collection ...

Fully define the test protocol: forced answers, waiting times, question flow ...

Use **FIZZ** to collect data for all sensory modalities. For example the appearance, odor and taste of food, the appearance, texture and odor of home and personal care products, the sounds of home entertainment systems, or the touch of fabrics ...

TEST DESIGN

FREE QUESTIONNAIRE DESIGN WITH COMBINATIONS OF ALL TYPES OF QUESTIONS:

✓ Descriptive or hedonic profiles using freely defined scales: linear, just about right, any type of category scale (for example 7 or 9 points), labeled magnitude scales ...

✓ Multiple-choice questions (MCQ): simple MCQ, simple and matrix Check All That Apply (CATA)

✓ Hierarchical multiple-choice and scoring

✓ Discrimination tests: triangle, A-not A, ranking ...

✓ Rapid methods: Sorting, Napping®, Free-choice profiling (FCP), Rate All That Apply (RATA) ...

✓ Temporal methods: single or multiple-attribute Time-Intensity (MATI), Temporal Dominance of Sensations (TDS), Temporal Check All That Apply (TCATA)

Chocolate

Please give us some details about your consumption habits:

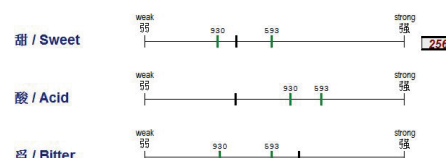
How often do you consume the following type of chocolate?

	Once a day	About 2/3 times a week	Once a week	About 2/3 times a month	Once a month	Less than once a month
White chocolate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milk chocolate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dark chocolate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FIZZ generates your sample presentation designs and blinding codes automatically, or allows you to use custom designs. Naturally it prints your sample labels. This allows you to easily access all your previous questions from your own unique library.

Multimedia information can also be evaluated, linked and randomized with your samples: this includes pictures, videos and sound recordings.

FIZZ Network, **FIZZ Web** and **FIZZ Portable** give you total control over the on-screen test protocol: forced answers, timers to force waiting times, conditional questions, feedback (training, panellist data compared to the panel data ...), showing previous answers for semi-monadic tests, and even more advanced programming for very specific tests ...



SESSION SIMULATION

Once the sensory test is built in **FIZZ** it can be simulated to verify its appearance and sequencing. Data can be collected in this simulation to allow you to validate the whole process. Test building and simulation tasks may be done on any **FIZZ** workstation.



FIZZ NETWORK

For sensory and consumer test facilities.

The fastest and most powerful solution for on-screen tests on networked computers.

FULL CONTROL

Run several tests at the same time with **FIZZ Network**:

✓ Allocate different tests to different booths.

✓ Run several tests and let the judge choose from the list of tests, or force the judge to answer a sequence of tests.

✓ Stop the terminals independently if needed.

The supervision window on the supervisor PC shows the progress of the judges in the booths.



RELIABLE ANSWERS, IMMEDIATELY

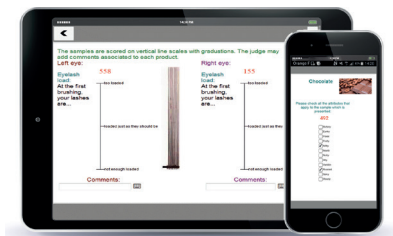
The answers collected are available immediately for analysis in **FIZZ Calculations**.

DATA COLLECTION IN ALL ENVIRONMENTS



FIZZ WEB

For tests through the Internet.



EASY PUBLICATION AND ANSWERS

- ✓ Define your tests including multimedia product characteristics (pictures, videos, sound recordings) if needed.
- ✓ Publish them on your **FIZZ Web** server.
- ✓ Invitations with a link are sent automatically.
- ✓ Consolidate the answers whenever you want.

TEST ANYWHERE

Reach anybody for any kind of test.

- ✓ Judges on other sites.
- ✓ Internal panellists at their desktop.
- ✓ Consumers for Home Use Tests.
- ✓ Consumers for recruitments.



FIZZ PORTABLE

For offline PCs.

Fast and easy test distribution and answer collection. For interviewers, remote sites, self-administered tests ...

TAKE YOUR TESTS OUT OF THE LAB

- ✓ Run the same tests as in your lab, but on independent computers without the need for network or internet.
- ✓ Deploy your test definition as an e-mail attachment or on a file server or memory stick ...
- ✓ Simply double-click the definition file to run the test.
- ✓ Send back the answers collected as an e-mail attachment or on a file server, a USB stick ...



FIZZ FORMS

For tests on paper, with automatic reading of the paper forms through a scanner.

TASTE

Sweet: weak ————— strong

Bitter: weak ————— strong

Salty: weak ————— strong

Your comments:

Not enough chocolate!

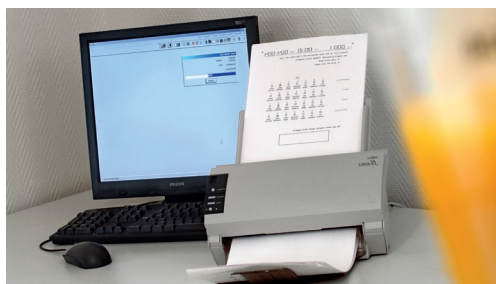
TEST ANYWHERE WITHOUT ANY HARDWARE

Solution to meet deviceless situations (sensory booths without computers, home use tests, hall tests with many respondents ...).

Use **FIZZ Forms** to test simply with pen and paper. Your paper questionnaires can combine all kinds of question types, and also include pictures as product characteristics (packaging, concepts ...).

FAST SCANNING

- ✓ A scan report gives details about missing or invalid answers.
- ✓ The results of each scanned page are immediately available for analysis.
- ✓ Open-ended questions (hand-written comments) can also be coded to be analyzed later as multiple-choice questions.



FIZZ DATA MANAGER: THE DATA MANAGEMENT MODULE OF FIZZ

A component of all FIZZ packages, to manage and access all your sensory and consumer test data

ALL YOUR SENSORY AND CONSUMER DATA

The database in **FIZZ** stores all your sensory and consumer data:

- ✓ Questionnaire/test: type, project, client, location, ...
- ✓ Samples and products: production date, location, batch, storage conditions and time, type, category, brand, related multimedia information (picture, video and sound recording) ...
- ✓ Judge data (panellists and consumers):
 - Personal information: names, gender, birth date ...
 - Contact data: address, phone numbers, e-mail ...
 - Household: children, household members, pets ...
 - Allergies/aversions, consumption and shopping habits
 - Availability: days, hour ranges, available or not
 - Judge group memberships
- ✓ All data collected during the tests:
 - Judge participation
 - Samples tested
 - All the actual answers collected.
 - ✓ Calculated judge performance indices from descriptive analysis profiles and discrimination tests

FLEXIBLE DATA INPUT AND VIEWING

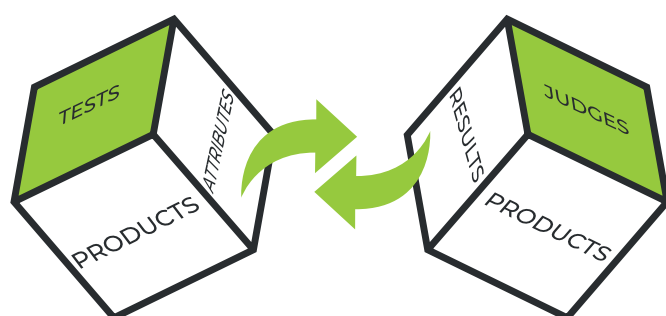
FIZZ provides efficient tools for data entry and viewing:

CUSTOMIZE YOUR WORKSPACE TO FIT YOUR BUSINESS NEEDS

- ✓ Data screens: fields used, labels, positions, behavior, ...
- ✓ Additional spare fields available.
- ✓ List, sort, filter and search your data as easily as with any office application.
- ✓ Import existing data from various sources (spreadsheets, for example Excel, ...)
- ✓ Connect your database to your business management software (ERP, LIMS, ...)
- ✓ Get a quick overview of all dependent data:
 - list of judges per assessed samples
 - judges and samples for each questionnaire
 - results for one judge/questionnaire/sample

DATA MINING

Look at your data from all angles, and extract exactly the information you need, for example:



- ✓ Get activity statistics:
 - the number of times each judge has participated
 - when or how often a specific type of product was tested
 - number of tests run and panellist time by project or client ...
- ✓ Get data for specific time periods, follow changes over time:
 - product scores
 - number of rejects in quality control
 - scores of a judge for a specific attribute
 - judge performance
- ✓ Select judges/consumers for new studies
- ✓ Combine results from different tests to analyze them together.
- ✓ Create automated queries:
 - Criteria values can be changed at execution,
 - Output can be directly exported to a spreadsheets (for example Excel) or other tools to update dash-boards ...

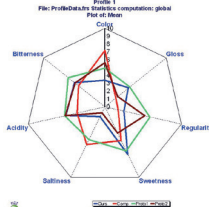
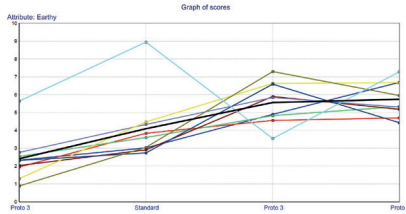
ACCESS CONTROL AND ANONYMIZATION

- ✓ User and role management to control data access.
- ✓ Data anonymization allows you to comply with data protection and preservation policies.

FIZZ CALCULATIONS: THE ANALYSIS MODULE OF FIZZ SOFTWARE

A free component of all FIZZ packages, for analyses right after the data collection

IMMEDIATE DATA EXPLORATION

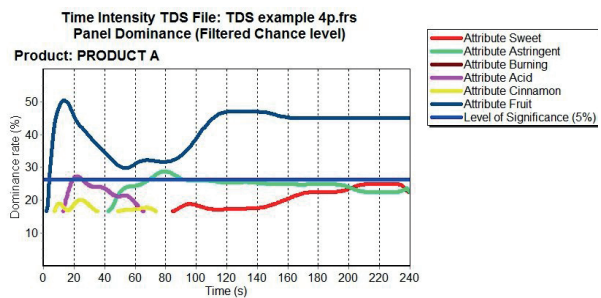


✓ Profiling data, get customizable descriptive statistics and ANOVA tables, graphs such as spider graphs, interaction graphs showing scale usage and panel consistency.

Judge performance graphs and reports show the repeatability and discrimination of your judges in a variety of ways. The performance indices can be stored allowing you to monitor your panel's performance over time.

- ✓ Discrimination tests: difference (α), similarity tests (β risk) and sensory difference (Dprime). Can be stored for performance follow-up.
- ✓ Ranking: Friedman and Page tests
- ✓ CATA: counts, frequencies, bar and pie-charts, Factorial Correspondence Analysis (FCA).
- ✓ Open-ended questions (including hand-written answers from FIZZ Forms) can be interactively coded and then analyzed like multiple-choice questions.
- ✓ Time-Intensity, TDS and TCATA analyses.

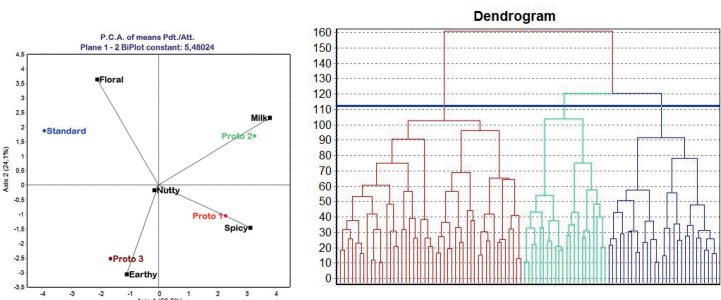
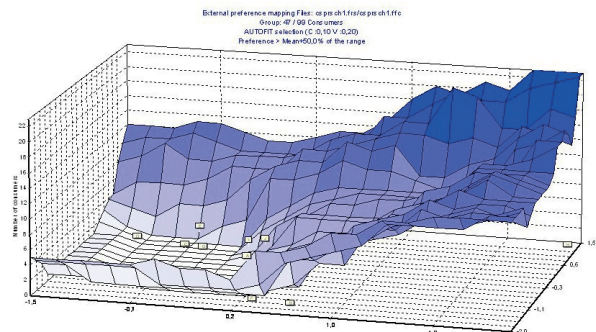
You can easily export all your data to your favourite statistics package.



ADVANCED STATISTICS AND GRAPHICS

Many advanced statistical tools are readily available, with the corresponding presentation-ready graphs.

- ✓ Individual, interaction and comparison graphs
- ✓ Descriptive statistics, interaction graphs, product comparison graphs
- ✓ Judge performance graphs and tables
- ✓ Frequencies, distributions (including custom classes), box and whisker plots
- ✓ Analysis of variance (for example 3-way with repetitions) with various post-hoc tests: LSD, Bonferroni, Scheffé, Tukey, Duncan, Newman-Keuls, Dunnett
- ✓ Student T-test: paired or independent, also against fixed score
- ✓ Non parametric tests: Friedman, Wilcoxon, Mann-Whitney ...
- ✓ Multivariate analyses, including Principal Component Analysis (PCA), cluster analysis, preference mapping (internal and external), FCA, and horizontal PCA with Multiple Factor Analysis (MFA) and STATIS.
- ✓ Penalty analysis



DATABASE INFORMATION

Include information from the database in your output: characteristics of your test (project, client, ...), your samples (production date, package, brand, ...), and your judges (gender, occupation, ...)

EXPORT - IMPORT

You can use scripts to quickly build reports with a series of analysis outputs and graphs.

Raw data collected with **FIZZ** can also be exported automatically to your statistical package, or any type of spreadsheet (for example Excel) ...

You can import external data into **FIZZ** and do all your analysis within the Calculations module.

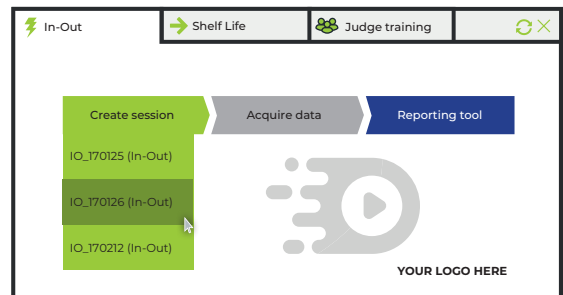
FIZZ QUICKSTART: FOR DAILY USE

A USER-FRIENDLY CUSTOMIZABLE TOOL

When the same tests are routinely used, for example in Quality Control, **FIZZ QuickStart** allows you to summarize all the daily tasks in a few buttons.

FIZZ QuickStart will allow you to automate all your repetitive tasks, for example:

- ✓ Generate sessions with the corresponding samples
- ✓ Collect data
- ✓ Automate calculations and creation of reports
- ✓ Exchange data with your business management software (ERP, LIMS, ...)



FIZZ PACKAGE

DATA COLLECTION METHODS FOR ALL NEEDS

The different versions of FIZZ allow data collection for all kinds of applications:

- ✓ Sensory Analysis
- ✓ Product Development
- ✓ Quality Control
- ✓ Consumer Tests
- ✓ Market Studies
- ✓ Mall Tests
- ✓ Home Use Tests
- ✓ Judge/Consumer Recruitment
- ✓ And many more, in fact anything you wish to do.

UNIQUE LICENSE BUNDLE AND SUPPORT

You can install **FIZZ** on as many computers as needed to prepare tests, analyze and extract data.

Service with your license:

- ✓ Free hands-on training to get started
- ✓ Support contract that includes software upgrades and support for specific or very advanced needs from our world-wide praised support team:
 - 6 months free
 - Recommended yearly renewal afterwards, for the most reasonable fee in the industry

CONSTANT INNOVATION

We constantly improve **FIZZ** and integrate new state of the art sensory and consumer testing techniques. Over 1100 FIZZ licenses are used in the industry, for research and training, and by service providers, in food and non-food areas worldwide in around 60 countries. Only the powerful and complete functionalities in **FIZZ** permit us to meet the specific needs of all these very different users.

DISTRIBUTION AND SUPPORT WORLDWIDE

Direct contact or distributors are available for sales and support close to you, and in many languages:

Alpha-mos

- ✓ Japan serviced from Tokyo (*English, Japanese*)
info@alpha-mos.co.jp - www.alpha-mos.co.jp

Arrow Scientific

- ✓ Australia-New Zealand serviced from Sydney (*English*)
info@arrowscientific.com.au
www.arrowscientific.com.au

Bio Sensory

- ✓ South-East Asia serviced from Singapore (*English, Mandarin Chinese, Malay*)
lena@bio-sensory.com - www.bio-sensory.com

MB Sense

- ✓ Americas serviced from Mexico (*English, Spanish, Portuguese*)
info@mbsense.com - www.mbsense.com

MT Enterprises

- ✓ India serviced from Delhi (*English, Hindi*)
info@mtanalytical.in - www.mtanalytical.in

Penta Sensorial

- ✓ Americas serviced from Mexico (*English, Spanish*)
informacion@pentasensorial.com.mx
www.pentasensorial.com.mx

All others areas are serviced from our headquarters in France (*English, French*). We hold regular user meetings in many countries that allow users to meet the FIZZ team and for us all to share ideas, techniques and news.



9, rue des Mardors
F-21560 Couternon - France
+33 (0)3 80 47 57 62 - information@biosystemes.com
WWW.BIOSYSTEMES.COM